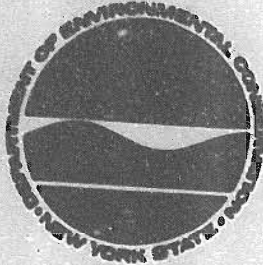


5. PHASE I  
INVESTIGATION,  
10 / 88

# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

## PHASE 1 INVESTIGATION

Schatz Plant  
Site No. 314074  
Poughkeepsie, Dutchess County  
Final - October, 1988



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, P.E., Director

Prepared by:  
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BUREAU OF  
HAZARDOUS SITE CONTROL  
DIVISION OF HAZARDOUS  
WASTE REMEDIATION

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Department of  
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New York, New York





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## APPENDICES

- A References
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SECTION I

## 1. EXECUTIVE SUMMARY

The Schatz Plant site (New York I.D. No. 314074, EPA I.D. No. NYD 982531246) is an abandoned automobile bearing manufacturing company located at 70 Fairview Avenue, in the Town of Poughkeepsie, Dutchess County, New York, (See Figure 1). The Schatz building is situated within a complex of buildings including N.Y. Telephone, Rehabilitation Programs. Inc., Pleasant Valley Finishing Company, Fairview Lithographic Company, and ACME Castor Company (See Figure 2).

The Schatz Federal Bearing Company was founded in 1915 and went bankrupt in 1980. The current owner of the property is 1929 Associates, 319 Main Mall, Poughkeepsie, New York, a group of investors who purchased the property around 1982. At the time of purchase the property was abandoned and had fallen into disrepair. In May 1986, the site was inspected by the NYSDEC and 100 unmarked, unlabeled 55-gallon drums and 14 open pits were discovered [A-1-1-3 (Appendix A, Reference 1), Photo. #1].

This discovery initiated testing of the contents of the drums by the property owner. More than 60 of these drums were found to contain oil and water. The remaining drums were found to contain detergents, alkaloids, fungicides and chemical solvents. In December 1986, the contents of the 60 drums containing oil and water were pumped out and removed from the site. Further testing and cleanup activities were delayed due to winter weather, which brought about freezing of the materials. In April 1987, composite samples from the 14 open pits were tested and results showed the presence of PCB's. By May 1987, 30 drums containing detergents, alkaloids, fungicides and chemical solvents were repacked and shipped off site. Also, at this time, 60 empty 55-gallon drums, which had contained oil and water were shipped off site by a scavenger. As of the date of the G&H site inspection, ten 55-gallon drums remained [A-1-1&2 of 3, Photo #2,3&4] and the open pits contained various amounts of liquid.

The preliminary HRS scores for this site are as follows:  
Migration Score,  $S_M = 26.79$ , Fire & Explosion Score,  $S_{FE} = 21.88$   
Direct Contact,  $S_{DC} = 00.0$ . The ground water route score,  
 $S_{GW} = 45.59$  and the surface water route score,  $S_{SW} = 8.31$ ,  
 $S_a = 0.00$

Since the Schatz Plant is classified as Class 2 site according to NYS DEC, it is recommended that a Remedial Investigation and Feasibility Study (RI/FS) be performed at the Schatz Plant.

This can be substantiated by very poor housekeeping inside and outside of the plant, the evidence of chemical and oil spillage on the floor, presence of PBC, heavy metals in the pits, potential fire and explosion threat to the surrounding occupied commercial buildings due to continued presence of chemical and oil in open pits and possible vandalism. The site history also revealed numerous fire code violations. Immediate clean-up of fourteen (14) pits of oil and chemicals inside the plant is also recommended.

FIGURE NO. 1

# SCHATZ PLANT



COORDINATES:

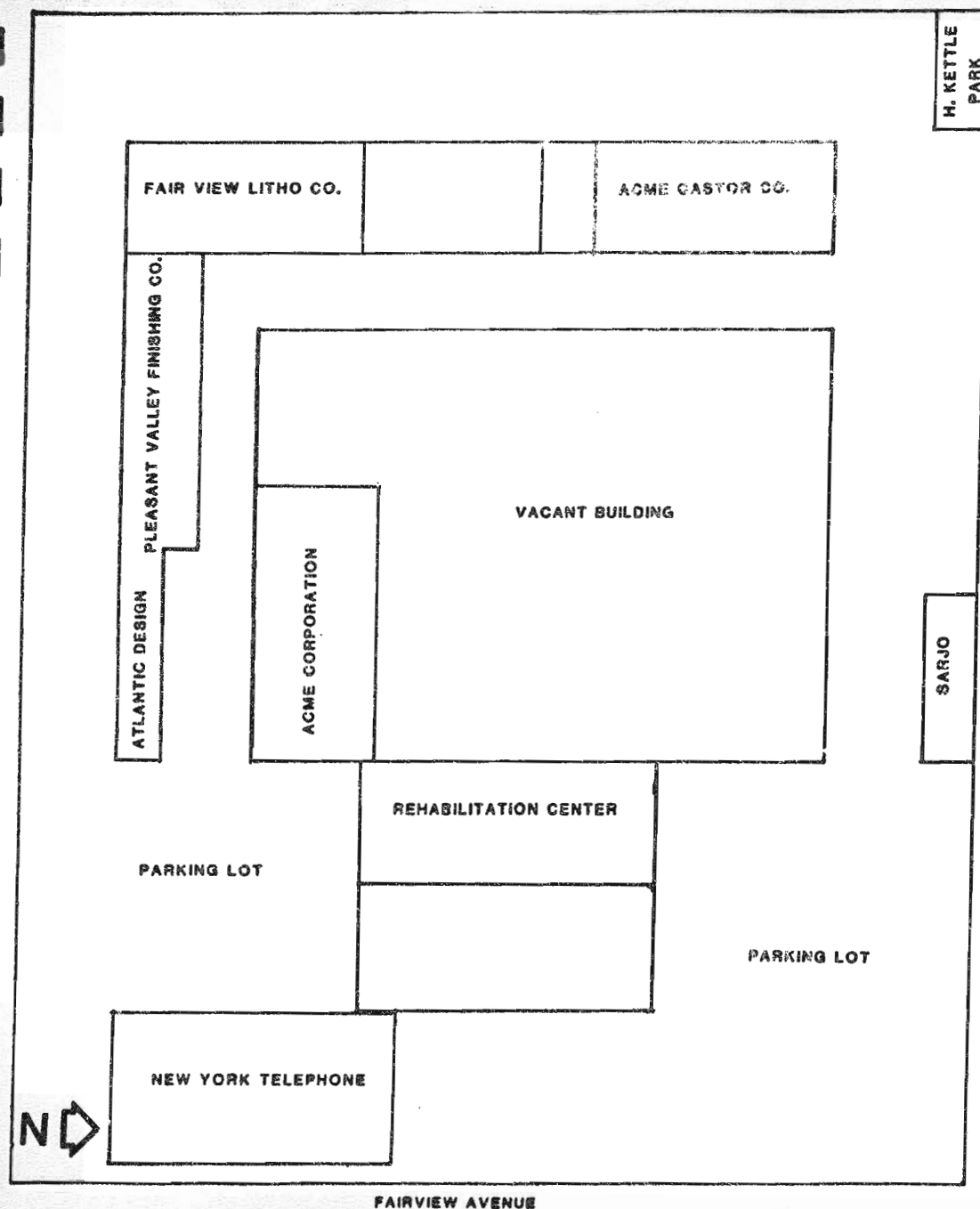
LAT. 41 43, 00"  
LONG. 73 55' 20"

0 1000 2000  
SCALE (FEET)

MAP SOURCE:  
U.S.G.S. POUGHKEEPSIE QUAD  
NEW YORK - DUTCHESS CTY.  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
1957 EDITION

FIGURE NO. 2

# SCHATZ PLANT



SECTION II

## 2. PURPOSE

The Schatz Plant site is listed in the Registry of "Inactive Hazardous Waste Disposal Sites in New York State" as a structure containing more than 100 unmarked and unlabeled drums. In addition, there are fourteen open pits with a rust colored liquid with an oil sheen. Some of the pits contain transformers.

The Phase I investigation at the Schatz Plant provides a preliminary characterization of any hazardous substances at this site, establishes possible migration route of pollutants, determines the population or resources which could be affected by pollutants from the site, investigates how the site was used and operated and determines who might be the party responsible for wastes at the site.

This Phase I investigation consists of the following:

- A. The compilation of existing information about the site including:
  - 1) Records on site history from local, county, state, and federal agencies.
  - 2) Information on site topography, geology, surface and groundwater and local demographics.
  - 3) Interviews of site operators and other individuals and parties with knowledge of the site.
- B. The inspection of the site to:
  - 1) Observe current conditions.
  - 2) Verify information, where possible.



C. The review of all available data

D. The preparation of a Phase I report containing:

1) A summary of findings

2) The computation of a preliminary Hazard Ranking System  
(HRS) score

SECTION III

### 3. SCOPE OF WORK

The Phase I investigation of the Schatz Plant site involved a site inspection by Gibbs & Hill, Inc., interviews and record searches.

The following individuals and agencies were contacted:

<u>Contact</u>	<u>Information Received</u>
Donn Courselle Robert-Mark Managing Agents P.O. Box 308 Hopewell Junction, N.Y. 12533	Interview about Schatz Plant
David Ruff Dutchess County Department of Health 22 Market Street Poughkeepsie, N Y 12601 (914) 431-2044	Site File
Lawrence J. Alden Michael J. Komoroske Marsden Chen, P.E. N.Y. State Dept. of Environmental Conservation Bureau of Hazardous Site Control Div. of Hazardous Waste Remediation 50 Wolf Road Albany, N Y 12233-0001 (518) 457-0639	NYSDEC Central Office Files
Mark Moroukian N.Y. State Dept. of Environmental Conservation Bureau of Eastern Remedial Action Div. of Hazardous Waste Remediation 50 Wolf Road Albany, N Y 12233-0001 (518) 457-0639	NYSDEC Central Office Files
Ramanand Pergadia, P.E. Senior Sanitary Engineer N.Y. State Dept. of Environmental Conservation Div. of Hazardous Waste Remediation 21 South Putt Corners Road New Paltz, N Y 12561 (914) 255-5453	NYSDEC Region 3 Files

Contact

N.Y. State Department of Health  
Division of Environmental  
Protection  
Bureau of Public Water Supply  
Protection  
Empire State Plaza  
Corning Tower Building  
Albany, N Y 12237  
(518) 457-4408

N.Y. State Dept. of Transportation  
1220 Washington Ave. - Bldg. F  
Albany, N Y 12224

Bruno Nemikus  
USGS  
5 Aerial Way  
Syosset, N.Y.  
(516) 938-8830

Fred Gilbert  
State Soil Scientist  
U.S. Dept. of Agriculture  
Soil Conservation Service  
U.S. Courthouse & Federal Building  
100 So. Clinton Street  
Syracuse, N.Y. 13260  
(315) 423-5521

Jerard S. Hankin  
Hankin, Hanig, Stall & Shafran  
319 Main Mall Rear  
P.O. Box 911  
Poughkeepsie, N.Y. 12602

Alison Silkworth  
Dutchess County  
Environmental Management Council  
P.O. Box 259  
Millbrook, N.Y. 12545  
(914) 677-3488

William Buskey  
RCRA Inspector  
NYSDEC, Region III  
21 South Putt Corners Road  
New Paltz, N.Y. 12561  
(914) 255-5453

Information Received

NYS Atlas of  
Community Water  
System Sources  
1982

NYSDOT Quad Maps

Published Information  
on Geology,  
Topography,  
Groundwater, and  
Wells

County Soil Borings

Site Water  
Information

No Information  
Available

Information about  
the Schatz Plant

Contact

Ms. Geen Sabo  
EPA  
26 Federal Plaza  
New York, N.Y. 10278

Norman Benson  
Soil & Water Conservation District  
P.O. Box 37  
Millbrook, N.Y. 12595  
(914) 677-8011

Robert Kennedy  
Kramer Environmental  
935 Allwood Road  
Clifton, N.J. 07012

John Ozard  
Lands & Waters  
Wildlife Resources Center  
Delmar, N.Y. 12054  
(518) 439-7486

Edward Fahrenkopf  
N.Y. State Dept. of Health  
2 University Place - 2nd Floor  
Albany, N.Y. 12203  
(518) 458-6310

Information Received

EPA I.D. No. of  
the site

No land/farms  
irrigated within  
3 miles of the site

Information about  
the Schatz Plant

Critical habitat  
Information

Dimension of the  
pits

SECTION IV

#### 4. SITE ASSESSMENT

##### 4.1 Site History

In 1915, the Schatz family organized the Schatz Federal Bearing Company to manufacture ball bearings for automobiles. A two story building was built in 1916. The company continued to grow from 1920 to 1956, with additional buildings and a laboratory constructed during this time along with the installation of three industrial groundwater wells for cooling purposes. Employment ultimately grew to a high of 1,400 people. The company began to decline in 1967, filed for bankruptcy in 1980 and closed in 1981. Various structures, located on 70 Fairview Avenue, Poughkeepsie, which originally comprised the Schatz Plant are now owned by 1929 Associates, the Pleasant Valley Finishing Company, and the Fairview Lithographic Company. Some of the original structures are currently vacant while others are rented out to Rehabilitation Programs, Inc. and ACME Company by 1929 Associates represented by Robert Mark Realty, Route 52, Hopewell Junction, N.Y. (914) 221-3700.

On May 7, 1986, a portion of the property owned by 1929 Associates was inspected by D. Slingerland of the NYSDEC. The inspection identified more than 64 55-gallon drums, more than one dozen electrical transformers, pits of oil, grease and contaminated water, contaminated soil outside of the building, and metal shavings and oil in 12 bins outside the building, [A-2-1-2]. A site tour on May 14, 1986 by the Dutchess County Environmental Management Council revealed the facility as a potential hazardous waste site, [A-3-1-1].

As a result of these inspections, 1929 Associates tested all the drums at the site utilizing their consultant, Kramer Environmental. Approximately 60 of these drums were found to contain oil and water. On December 3, 1986 the contents of these 60 drums, equal to 1,123 gallons, was pumped out and removed from

the site [A-4-1-2, Item #2; A-5-1-1]. The remaining 30 drums were found to contain detergents, alkaloids, fungicides, and chemical solvents. 1929 Associates received an estimate for the cost of the removal and disposal of these drums on December 9, 1986 [A-6-3-3].

Various correspondence during the period December 17, 1986 to March 19, 1987 between NYSDEC and 1929 Associates concerned a requested workplan and sampling plan under which 1929 Associates would proceed with cleanup at the site. The cleanup would include pit sampling and the removal of more than 30 drums which contained detergents, alkaloids, fungicides, and chemical solvents [A-7-6-6]. Letters dated February 12, 1987 and February 19, 1987 indicate that cleanup and sampling activities were delayed due to the winter weather, which brought about freezing of the materials [A-8-1&2 of 2].

On April 20, 1987 Kramer Environmental sampled the transformers and 14 open pits at the site. Results of these analyses were forwarded to 1929 Associates through Robert-Mark Realty, the property manager for the owner. The sampling included sludge, oil and water composites of the materials in the pits. The results showed concentrations of PCB's in the composite samples ranged from 4.4 ppm to 264.4 ppm. This required that further individual sampling of the pits be conducted to further isolate PCB levels [A-9].

By May 1987, the 30 drums containing detergents, alkaloids, fungicides and chemical solvents were repacked and shipped off-site. On May 18, 1987, 72 empty, 55-gallon drums which had contained oil and water were shipped off-site by Storonske N. Cooperage Company, Inc. Five 55-gallon drums and a few five and one-gallon containers remained at the site either due to residue remaining in the drums or lack of room on the transport truck. Several of these drums remained at the site were put to miscellaneous uses by tenants in the area [A-1-3-3, Photo #5; A-10-1-1].



It should be noted that during this entire period, beginning on approximately May 19, 1985, the Fairview Fire District and the Town of Poughkeepsie had repeatedly expressed concern as to the safety at the site due to numerous fire and building code violations [A-11-1-6]. In response, 1929 Associates had one building boarded up [A-12-1-12] and, according to Donn Courselle of Robert-Mark Realty, the owner began to have the pits in the foundry building filled in with soil, bricks and concrete. However, this process was halted until investigations of the materials within the pits could be completed.

The G&H site visit of June 17, 1987 verified the existence, in the covered alleyway outside the foundry building, of five 55-gallon drums (open, unlabeled and some rusting and bulging), four 5-gallon gas tanks, and 16 5-gallon pails. Two of the 55-gallon drums contained small amounts of liquid. The 14 open pits in the foundry building contained water, oil, wood and refuse. Some of the pits were partially filled with soil, gravel, bricks and concrete. The foundry building and surrounding areas are very accessible to the public, as there is no fencing barrier or security.

#### 4.2 Site Topography

The ground surface of Dutchess County is moderately irregular, consisting of an almost continuous alternation of hills and valleys. The county is divided, on the basis of topography, into two relatively distinct parts: 1) numerous small irregular shaped hills, and 2) numerous regular shaped hills and low mountains. The topographic section characterized by numerous small irregular shaped hills is located west of Wappinger Creek and longitude 73° 45' W. [A-13-2-14, p. 6]. The Schatz Plant site is located in this topographic region. Most of the small irregular shaped hills range in height from about 20 to 100 feet above intervening valleys. The Schatz Plant has an elevation of approximately 175 feet and is located on a level area northwest of College Hill.

The site is entirely paved and has a slope of less than three percent. The nearest river is the Hudson River, 4,700 feet west, and the nearest lake is the College Hill Park Reservoir which is topographically upgradient of the site and located, 2,000 feet southeast of the site. The site does not lie in a flood plain zone.

#### 4.3 Site Hydrogeology

The climate of Dutchess County is humid continental and is characterized by long, cold winters, short, warm summers, and abundant rainfall. The mean monthly temperature is approximately 49°F and the mean annual precipitation is about 45 inches (see Figure 4-1). The mean annual lake evaporation is 31 inches, thus net precipitation is 14 inches. The one-year 24-hour rainfall is approximately 2.85 inches.

Groundwater occurs in all geologic formations in Dutchess County. The two principal water bearing formations or groups are: 1) the consolidated rocks that range in age from Precambrian to Ordovician, and 2) unconsolidated deposits of Pleistocene and Recent Age [A-13 p. 12]. The principal bedrock units within the county are the undifferentiated granite and gneiss (Precambrian), the Cheshire Quartzite (Early Cambrian), the Stockbridge limestone (Ordovician and Cambrian), and the Hudson River formation (Ordovician). The Hudson River formation is the most extensive bedrock unit in the county and underlies the Schatz Plant site. This formation is chiefly composed of slate and phyllite in the site area (see Table 4-1). The lower part of the unit contains much sandstone and is locally called bluestone. Depth to bedrock at the site is 26 feet based on a site boring log for well Du 498. For the first 225 feet, bedrock alternates from a shale to a "bluestone" [A-13-4-14 pp.15-20].

The structure of the Hudson River formation changes progressively from the northwest to southeast. In the relatively

unmetamorphosed rocks between the valleys of Wappinger Creek and Fishkill Creek small closely spaced subparallel joints resulting from slaty cleavage are numerous. The spacing of these joints ranges from a fraction of an inch to several inches, and spacings are wider in the more sandy parts of the formation. Openings of the bedding-plane type can be recognized in this area [A-13-9-15, p.20].

Unconsolidated material mantling the bedrock was chiefly deposited by glaciers and glacial melt water in Pleistocene time. Well Du 670, 4/10 of a mile northwest of the site (see Table 4-2), identifies a loam blanketing the area. However, the site lies at an interface between stratified deposits of sand and gravel and glacial till [A-13, Plate 3]. Because the site is paved, only an inference (based on available data) can be made to site soils. Sites soils are believed to consist of medium compact stratified drift consisting of mixtures of sand and gravel having a permeability probably between  $10^{-3}$  cm/sec and  $10^{-4}$  cm/sec. This is supported by on-site well yields.

Table 4-2  
Drillers' Log of Selected Wells in Dutchess County  
Du 670: 15Y, 15.5N, 9.3W

	Thickness (ft)	Depth (ft)
Loam.....	2	2
Shale.....	24	26
"Bluestone".....	199	225
Shale.....	10	235
"Bluestone".....	15	250

Source: Reference A-13, p. 76

As of 1961, three industrial wells had been drilled on the site, Du 498, Du 633, and Du 106, and were used for cooling purposes [A-13-11-4, pp. 63-72,75]. Depth to bedrock varied from 18 to 27 feet and well yields from 11 to 50 gpm. Well Du 106 was drilled to a depth of 55 feet, well Du 498 to 1,196 feet and well

Du 633 to 550 feet. Area groundwater flow within the overburden is west, towards the Hudson River.

Bedrock well yields are directly related to the surficial deposits. Low bedrock yield (13 gpm) is associated with till surface deposits, and higher yields (30 gpm) are associated with sand and gravel surface deposits, thus indicating that recharge to bedrock is affected by surficial deposits [A-13 p.35]. Therefore, since well yields vary from 11 to 50 gpm, published literature suggests that groundwater in the unconsolidated deposits at the site directly recharges the site bedrock aquifer.

The primary aquifer of concern is the bedrock aquifer. Based on Table 13 of Reference A-13, depth to groundwater in well Du 498 at the site was 4 feet in 1949. During pumping, drawdown of 166 feet was recorded at a discharge rate of 50 gpm. This data suggests the well has a capacity of 0.3 gal/ft drawdown, indicating a relatively impermeable bedrock aquifer.

Well Du 670, located 4/10 miles northwest, has a depth to groundwater of 24 feet and is likely to be representative of site conditions.

The three bedrock wells drilled on site may provide a pollutant migratory pathway into the bedrock aquifer as deep as 1,200 feet below surface. Given that bedrock structure in the site area is known to have numerous joints, and bedrock is only 27 feet below grade, site pollutants can migrate along the annulus space and within the joints downward.

#### 4.4 Site Contamination

##### Waste Types and Quantities

In the past, the Schatz Plant had generated drums of detergents, alkaloids, fungicides and chemical solvents. About 30 55-gallon drums of these materials were discovered in 1986. Some residual

material may remain as a result of spillage over the years. The site also contained over 60 55-gallon drums of waste cutting oil and water. Most of these drums and their contents were also removed. However, some drums remain and residual material may be present. Currently at the site, 14 open pits located within the foundry building contain water, oil and sludge. The materials in these pits were tested and PCB's in concentrations from 4.4 ppm to 264.4 ppm were detected [A-9].

Ground Water

No data available [B-1-8-14].

Surface Water

No data available for surface water outside of the structure [B-1-8-14].

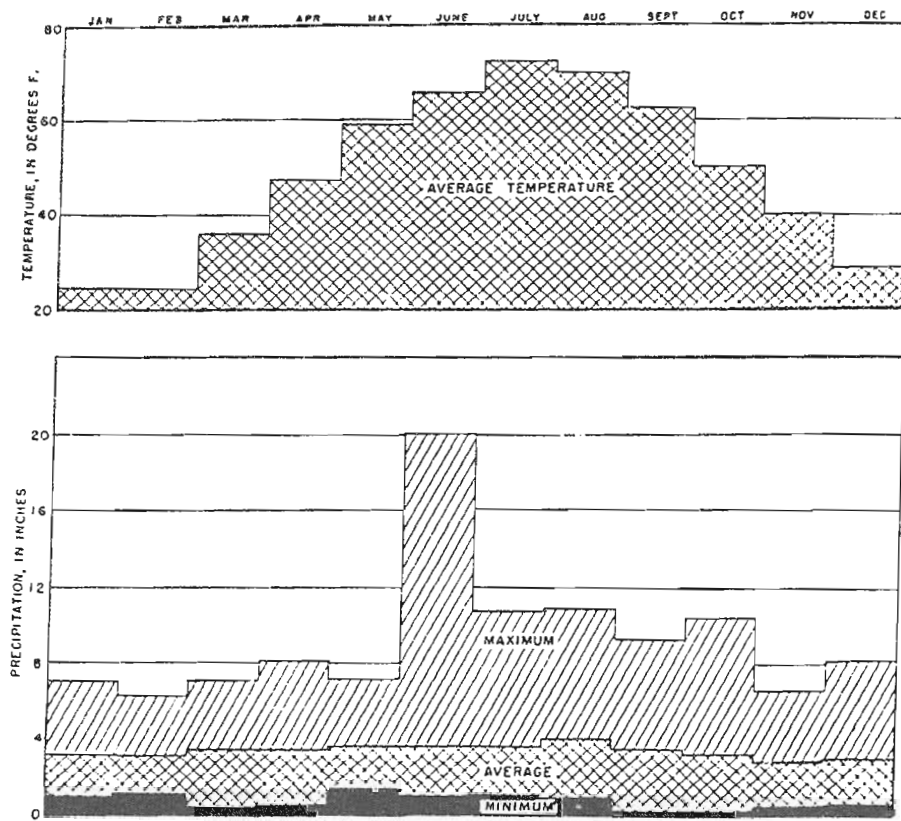
Soil

Contaminated soil was identified outside of the building during May 7, 1986 inspection by NYDEC. However, no soil analysis was performed [B-1-8-14].

Air

No data available.

Figure 4-1



Average monthly temperature and maximum, average, and minimum monthly precipitation at Wappingers Falls for the period 1893-1950.

Source: Reference A-13 pg. 11

Table 4-1

Class	Age	Geologic Unit	Maximum thickness (feet)	Character of material	Water-bearing properties
Unconsolidated deposits	Recent	Alluvium	30 <sup>2</sup>	Clay, silt sand, and gravel deposited by present-day streams in lakes, swamps, and on flood plains.	Not important as source of water because of limited thickness and restriction to discontinuous areas adjacent to streams. Potentially important, however, in larger valleys where coarse-grained material permits induced infiltration from nearby streams.
	Pleistocene	Stratified drift	200	Irregularly interbedded and inter-lensing sand and gravel formed by glacial melt-water streams.	Most productive source of ground water in county, though restricted in areal extent to portions of main stream valleys. Yields moderate to large supplies from properly constructed wells. Water moderately hard in parts of the valleys underlain by Stockbridge limestone.
		Lacustrine deposits	200	Clay and silt deposited in glacial lakes.	Yields little water. Generally acts as a confining bed where underlain by permeable deposits.
		Unstratified drift	150	Heterogeneous mixture of boulders and clay deposited by glacial ice. In places, contains small lenses of sand and gravel. Locally called "hardpan."	Generally thin and impermeable but yields small supplies to wells of large diameter.
Consolidated rocks	Late (?) and Middle Ordovician	Hudson River formation	3,000+	Shale or slate, chiefly gray or black but locally red, purple, and green. Contains beds of grit, limestone, limestone conglomerate, and black chert. Metamorphosed to phyllite and in east to schist.	Most extensive bedrock formation in county. Yields average 16 gpm. Water moderately soft and fairly low in dissolved solids, but hydrogen sulfide reported in some wells.
		Stockbridge limestone	1,000 <sup>4</sup>	White, blue, and gray limestone and dolomite metamorphosed to marble in east. Veins of calcite and quartz common.	Chiefly restricted to valley areas. Most productive bedrock formation; yields average 22 gpm and range widely from 0 to 220 gpm. Water moderately hard and relatively high in dissolved solids.
	Early Cambrian	Cleshire quartzite	600 <sup>4</sup>	Strong, compact rock composed almost entirely of quartz. Generally white except locally, where impurities result in buff or pink color.	Unimportant as a source of ground water because of small areal extent. Yields of five wells in southern part of county average 10 gpm.
	PreCambrian	Undifferentiated granite and gneiss	Unknown	Banded black and white gneiss and gray or pink granite. Chief minerals feldspar and quartz. Locally contains basic dikes, quartz veins, and minor amounts of schist and marble.	Principally restricted to southern part of county. Yields of wells average 11 gpm. Water generally soft and low in dissolved solids.

Source: Reference A-13 pg. 14

SECTION V





## 5. PRELIMINARY HRS

### 5.1 Narrative Summary

The Schatz Plant site is a structure housing 14 open pits which have been determined to contain over 50 ppm of PCB's in standing liquid. The site is located in the Town of Poughkeepsie, Dutchess County, New York.

The site and some of the surrounding commercial properties are owned by 1929 Associates. The site is an abandoned automobile bearing manufacturing company which was founded in 1915 and went bankrupt in 1980. The site was inspected by the NYSDEC, in May 1986, at which time 100 unmarked, unlabeled 55-gallon drums and the 14 open pits were discovered. Cleanup efforts were undertaken by the owner beginning in December 1986. At the time of the G&H site inspection, all but five of the 55-gallon drums had been removed. The condition of the pits remained unchanged from the time of the NYSDEC inspection

The potential for direct contact is curtailed to the public by installing wooden enclosure properly secured with doors and locks. Ground water is not used for drinking in the area. However, the Hudson River is located 4,700 feet west of the site with the surface water intake for the City of Poughkeepsie.

LOCATION

5.2 Location

FIGURE NO. 1

SCHATZ PLANT



COORDINATES:

LAT. 41 43, 00"  
LONG. 73 58' 20"

0 1000 2000  
SCALE (FEET)

MAP SOURCE:  
U.S.G.S. POUGHKEEPSIE QUAD,  
NEW YORK - DUTCHESS CTY.  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
1967 EDITION

HRS WORKSHEETS

### 5.3 HRS Worksheets

Facility name: <u>Schatz Plant</u>	
Location: <u>70 Fairview Avenue, Poughkeepsie, NY 12601</u>	
EPA Region: <u>II</u>	
Person(s) in charge of the facility: <u>1929 Associates</u>	
<u>319 Main Mall, Poughkeepsie, NY 12602</u>	
Name of Reviewer: <u>Propersi/Radko</u>	Date: <u>8/25/87</u>
General description of the facility: (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)	
<u>The Schatz Plant is an abandoned facility located</u> <u>in the City of Poughkeepsie. The site had been owned</u> <u>by Schatz Federal Bearing Company which filed for</u> <u>bankruptcy in 1981. Various hazardous materials have</u> <u>been identified at the site. Materials are located</u> <u>in 14 pits housed by the existing structure</u>	
Scores: $S_M = 26.79$ $S_{gw} = 45.59$ $S_{sw} = 8.31$ $S_a = 0.00$ $S_{FE} = 21.88$ $S_{DC} = 0.00$	

**FIGURE 1**  
**HRS COVER SHEET**



Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	Max. Score
1 Observed Release	0 45	1	0	45	3.1	45
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.						
2 Route Characteristics					3.2	
Depth to Aquifer of Concern	0 1 2 3	2	4	6		
Net Precipitation	0 1 2 3	1	2	3		
Permeability of the Unsaturated Zone	0 1 2 3	1	2	3		
Physical State	0 1 2 3	1	3	3		
Total Route Characteristics Score			11	15		
3 Containment	0 1 2 3	1	3	3	3.3	
4 Waste Characteristics					3.4	
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	4	8		
Total Waste Characteristics Score			22	26		22
5 Targets					3.5	
Ground Water Use	0 1 2 3	3	6	9		
Distance to Nearest Well/Population Served	0 4 8 12 16 18 20 24 30 32 35 40	1	30	40		
Total Targets Score			36	49		36
6	If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5		23,136	57,330		35,640
7	Divide line 6 by 57,330 and multiply by 100		S <sub>gw</sub> = 45.59			62.17

FIGURE 2  
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet							Max. Score
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)		
<b>1</b> Observed Release	<b>0</b> 45	1	0	45	4.1		45
If observed release is given a value of 45, proceed to line <b>4</b> . If observed release is given a value of 0, proceed to line <b>2</b> .							
<b>2</b> Route Characteristics					4.2		
Facility Slope and Intervening Terrain	<b>0</b> 1 2 3	1	0	3			
1-yr. 24-hr. Rainfall	0 1 <b>2</b> 3	1	2	3			
Distance to Nearest Surface Water	0 1 <b>2</b> 3	2	4	6			
Physical State	0 1 2 <b>3</b>	1	3	3			
Total Route Characteristics Score			9	15			
<b>3</b> Containment	0 1 2 <b>3</b>	1	3	3	4.3		
<b>4</b> Waste Characteristics					4.4		
Toxicity/Persistence	0 3 6 9 12 15 <b>18</b>	1	18	18			
Hazardous Waste Quantity	0 1 2 3 <b>4</b> 5 6 7 8	1	4	8			
Total Waste Characteristics Score			22	28			22
<b>5</b> Targets					4.5		
Surface Water Use	0 1 2 <b>3</b>	3	9	9			
Distance to a Sensitive Environment	<b>0</b> 1 2 3	2	0	6			
Population Served/Distance to Water Intake Downstream	<b>0</b> 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40			
Total Targets Score			9	55			9
<b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>4</b> x <b>5</b> If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b>			5,346	64,350			8,910
<b>7</b> Divide line <b>6</b> by 64,350 and multiply by 100			S <sub>sw</sub> = 8.31				13.85

**FIGURE 7**  
**SURFACE WATER ROUTE WORK SHEET**

Air Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
<b>1</b> Observed Release	<b>0</b> 45	1	0	45	5.1	
Date and Location: No Samples Taken						
Sampling Protocol: No Samples Taken						
If line <b>1</b> is 0, the $S_a = 0$ . Enter on line <b>5</b> . If line <b>1</b> is 45, then proceed to line <b>2</b> .						
<b>2</b> Waste Characteristics					5.2	
Reactivity and Incompatibility	<b>0</b> 1 2 3	1	0	3		
Toxicity	0 1 2 3	3	9	9		
Hazardous Waste Quantity	0 1 2 3 <b>4</b> 5 6 7 8	1	4	8		
Total Waste Characteristics Score			13	20		
<b>3</b> Targets					5.3	
Population Within 4-Mile Radius	0 9 12 15 <b>18</b> 21 24 27 30	1	18	30		
Distance to Sensitive Environment	<b>0</b> 1 2 3	2	0	6		
Land Use	0 1 2 <b>3</b>	1	3	3		
Total Targets Score			21	39		
<b>4</b> Multiply <b>1</b> x <b>2</b> x <b>3</b>			0	35,100		
<b>5</b> Divide line <b>4</b> by 35,100 and multiply by 100			$S_a = 0.00$			

**FIGURE 9  
AIR ROUTE WORK SHEET**

	$S$	$S^2$
Groundwater Route Score ( $S_{gw}$ )	45.59	2078.4
Surface Water Route Score ( $S_{sw}$ )	8.31	69.06
Air Route Score ( $S_a$ )	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		2147.46
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		46.34
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		26.79

FIGURE 10  
WORKSHEET FOR COMPUTING  $S_M$

Fire and Explosion Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
<b>1</b> Containment	1 <b>3</b>	1	3	3	7.1	
<b>2</b> Waste Characteristics					7.2	
Direct Evidence	<b>0</b> 1      2      3	1	0	3		
Ignitability	<b>0</b> 1      2      3	1	0	3		
Reactivity	<b>0</b> <b>1</b> 2      3	1	1	3		
Incompatibility	<b>0</b> 1      2      3	1	0	3		
Hazardous Waste Quantity	0      1      2      3 <b>4</b> 5      6      7      8	1	4	8		
Total Waste Characteristics Score			5	20		
<b>3</b> Targets					7.3	
Distance to Nearest Population	0      1      2      3      4 <b>5</b>	1	5	5		
Distance to Nearest Building	0      1      2 <b>3</b>	1	3	3		
Distance to Sensitive Environment	<b>0</b> 1      2      3	1	0	3		
Land Use	0      1      2 <b>3</b>	1	3	3		
Population Within 2-Mile Radius	0      1      2      3      4 <b>5</b>	1	5	5		
Buildings Within 2-Mile Radius	0      1      2      3      4 <b>5</b>	1	5	5		
Total Targets Score			21	24		
<b>4</b> Multiply <b>1</b> x <b>2</b> x <b>3</b>			315	1,440		
<b>5</b> Divide line <b>4</b> by 1,440 and multiply by 100			SFE = 21.88			

**FIGURE 11  
FIRE AND EXPLOSION WORK SHEET**

Direct Contact Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Incident	0 45	1	0	45	8.1	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2						
2 Accessibility	0 1 2 3	1	0	3	8.2	
3 Containment	0 15	1	15	15	8.3	
4 Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4	
5 Targets					8.5	
Population Within a 1-Mile Radius	0 1 2 3 4 5	4	20	20		
Distance to a Critical Habitat	0 1 2 3	4	0	12		
Total Targets Score			20	32		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0.00	21.600		
7 Divide line 6 by 21,600 and multiply by 100			SDC = 0.00			

FIGURE 12  
DIRECT CONTACT WORK SHEET

HRS DOCUMENTATION  
RECORDS

#### 5.4 HRS Documentation



DOCUMENTATION RECORDS  
FOR  
HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: Schatz Plant

LOCATION: 70 Fairview Ave., Poughkeepsie, NY 12601

DATE SCORED: 8/25/87

PERSON SCORING: Propersi/Kazemi

PRIMARY SOURCE(S) OF INFORMATION (e.g. EPA region, state, FIT, etc.):

Site visit, site representative interview, Town of Poughkeepsie Planning Department, NYSDEC, Dutchess County Department of Health.

FACTORS NOT SCORE DUE TO INSUFFICIENT INFORMATION:

Sa - no air sample data available.

COMMENTS OR QUALIFICATIONS:

None.

## GROUND WATER ROUTE

### 1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No release observed.

Rationale for attributing the contaminants to the facility:

Test data from private and observation wells. [1,2]

N/A

Score = 0

\* \* \*

### 2 ROUTE CHARACTERISTICS

#### Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Bedrock aquifer. [1]

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

26 feet. [1]

Depth from the ground surface to the lowest point of waste disposal/storage:

Depth of the pits is not known [B-1-14-14].

Score = 2

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

45 inches [2]

Mean annual lake or seasonal evaporation (list months for seasonal):

31 inches [2]

Net precipitation (subtract the above figures):

14 inches  
Score = 2

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Sand and gravel. [1]

Permeability associated with soil type:

$10^{-3}$  to  $10^{-4}$  cm/sec. [1]  
Score = 2

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Liquid and sludge [A-4-2-2].  
Score = 3

\* \* \*

### 3 CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

Fourteen unlined pits open to the air. The structure of the pits is concrete. [B-1-12-14]

Method with highest score:

Fourteen unlined open pits.  
Score = 3

### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

P.C.B. and heavy metals. [A-9]

Compound with highest score:

P.C.B.  
Score = 18

#### Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

167 cubic yard (estimate).

Basis of estimating and/or computing waste quantity:

Nine pits contain oil, liquids and sludge. Total volume of nine pits with assumed 2-ft liquid depth plus 5,000 gallons chemical in adjacent building. Sixty 55-gallon drums contained 1,123 gallons of oil/water mixture and thirty 55-gallon frozen chemical/oil drums. [B-1-14-14] [A-5-1-1] and [A-4-1-2]  
Score = 4

\* \* \*

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Drinking water - the alternate source of water is the City of Poughkeepsie's water supply system fed by Hudson River.  
Score = 2

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

North-northwest of site. [3]

Distance to above well or building:

1.8 miles [3]  
Score = 2

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Eight non-municipal community wells serving 1,382 people. [3]

#82 - 50	#157 - 30	#152 - 60	#62 - 600
#110 - 108	#100 - 70	#73 - 450	#148 - 14

Population served by private wells = 12,533 persons. [6]

Computation of Land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

No farmland is irrigated by groundwater within 3 miles of the site. [B-1-13-14]

Total population served by ground water within a 3-mile radius:

13,915 persons.  
Score = 5  
Matrix Score = 30

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No release observed.

Rationale for attributing the contaminants to the facility:

N/A  
Score = 0

\* \* \*

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Less than 3 percent. [4]

Name/description of nearest downslope surface water:

Hudson River 4,700 feet. [4]  
West of site.

Average slope of terrain between facility and above-cited surface water body in percent:

Less than 3 percent. [4]

Is the facility located either totally or partially in surface water?

No.

Is the facility completely surrounded by areas of higher elevation?

No, the area to the south of the site is at a slightly lower elevation. [4]  
Score = 0

1-Year 24-Hour Rainfall in Inches

2.85 inches. [2]  
Score = 2

Distance to Nearest Downslope Surface Water

2,750 feet (south). [4]  
Score = 2

Physical State of Waste

Liquid and sludge. [A-4-2-2]  
Score = 3

\* \* \*

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Contaminated soil outside the building, and spillage of oil and chemical on the floor. [A-2-1-2]

Method with highest score:

Contaminated soil outside the building and direct spillage of oil and chemical on the floor. [A-2-1-2]  
Score = 3

#### 4 WASTE CHARACTERISTICS

##### Toxicity and Persistence

Compound(s) evaluated

P.C.B. and heavy metals. [A-9]

Compound with highest score:

P.C.B.  
Score = 18

##### Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

167 cubic yards (estimate).

Basis of estimating and/or computing waste quantity:

Nine pits contain oil, liquids and sludge. Total volume of nine pits with assumed 2-ft liquid depth plus 5,000 gallons chemical in adjacent building. Sixty 55-gallon drums contained 1,123 gallons of oil/water mixture and thirty 55-gallon frozen chemical/oil drums. [B-1-14-15]  
Score = 4

\* \* \*

#### 5 TARGETS

##### Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreation. [B-1-13-14]  
Score = 3



Is there tidal influence?

Yes, there is a tidal influence on the Hudson River.

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

1.42 miles west of plant. [7]

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

Greater than one mile.  
Score = 0

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substances and population served by each intake:

All static water bodies are recreational (population served is not known). The only free flowing body, the Hudson River, has no intakes within three miles downstream of the site (recreational population served is not known). [3]

Computation of Land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

None. [B-1-13-14]

Total population served:

Zero

Name/description of nearest of above water bodies:

N/A

Distance to above-cited intakes, measured in stream miles.

There are no intakes within three miles (downstream) of the site.

Score = 0

## AIR ROUTE

### 1 OBSERVED RELEASE

Contaminants detected:

No observed release.

Date and location of detection of contaminants

No samples taken.

Methods used to detect the contaminants:

N/A

Rationale for attributing the contaminants to the site:

P.C.B.'s have been detected in the pit waste, as documented  
by laboratory sampling records. [A-9]  
Score = 0

\* \* \*

### 2 WASTE CHARACTERISTICS

#### Reactivity and Incompatibility

Most reactive compound:

P.C.B. [A-9]

Most incompatible pair of compounds:

None.

Toxicity

Most toxic compound:

P.C.B.  
Score = 3

Hazardous Waste Quantity

Total quantity of hazardous waste:

167 cubic yards (estimated).

Basis of estimating and/or computing waste quantity:

Nine pits contain oil, liquids and sludge. Total volume of nine pits with assumed 2-ft liquid depth plus 5,000 gallons in adjacent building. Sixty 55-gallon drums contained 1,123 gallons of oil/water mixture and thirty 55-gallon frozen chemical/oil drums. [B-1-14-14] [A-5-1-1] and [A-4-1-2].  
Score = 4

\* \* \*

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi      0 to 1 mi      0 to 1/2 mi      0 to 1/4 mi

8,834 persons (based on 351 buildings assumed to house 3.8 persons each, and 25 percent of the city of Poughkeepsie (pop. 30,000)). [3,4]  
Score = 18

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A.

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

1.42 miles west of the site. [7]

Distance to critical habitat of an endangered species, if 1 mile or less:

Greater than one mile.  
Score = 0

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Adjacent to the site.  
Score = 3

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

1 mile south and south-west of the site. [4]  
Score = 1

Distance to residential area, if 2 miles or less:

150 feet.  
Score = 3

Distance to agricultural land in production within past 5 years, if 1 mile or less:

N/A

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

No agricultural land within 2 miles. [B-1-13-14]

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

None

## FIRE AND EXPLOSION

### 1 CONTAINMENT

Hazardous substances present:

P.C.B. and heavy metals.

Type of containment, if applicable:

Fourteen unlined pits contain oil, liquids and sludge.

Score = 3

\* \* \*

### 2 WASTE CHARACTERISTICS

#### Direct Evidence

Type of instrument and measurements:

No measurements taken.

Score = 0

#### Ignitability

Compound used:

P.C.B., oil.

Score = 0

#### Reactivity

Most reactive compound:

None

Score = 1

#### Incompatibility

Most incompatible pair of compounds:

None

Score = 0

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

167 cubic yards (estimate).

Basis of estimating and/or computing waste quantity:

Nine pits contain oil, liquids and sludge. Total volume of nine pits with assumed 2-ft liquid depth plus 5,000 gallons in adjacent building. Sixty 55-gallon drums contained 1,123 gallons of oil/water mixture and thirty 55-gallon frozen chemical/oil drums. [B-1-14-14], [A-5-1-1] and [A-4-1-2].  
Score = 4

\* \* \*

3 TARGETS

Distance to Nearest Population

20 feet (0.004 miles).  
Score = 5

Distance to Nearest Building

20 feet (0.004 miles).  
Score = 3

Distance to Sensitive Environment

Distance to wetlands:

1.42 miles west of the site. [7]  
Score = 0

Distance to critical habitat:

Greater than one mile.  
Score = 0

Land Use

Distance to commercial/industrial area, if 1 mile or less:

The site is located within a heavily populated and built-up residential, commercial, industrial area.  
Score = 3

Distance to national or state park, forest, or wildlife reserve,  
if 2 miles or less:

N/A

Distance to residential area, if 2 miles or less:

The site is located within a heavily populated and built-up  
residential, commercial, industrial area.

Distance to agricultural land in production within past 5 years,  
if 1 mile or less:

N/A

Distance to prime agricultural land in production within past 5  
years, if 2 miles or less:

No agricultural land within 2 miles. [B-1-13-14]

Is a historic or landmark site (National Register of Historic  
Places and National Natural Landmarks) within the view of the  
site?

None

Population Within 2-Mile Radius

29,024 persons based on 1,322 buildings assumed to house 3.8  
persons each and 80 percent of the city of Poughkeepsie  
(pop. 30,000). [3,4]  
Score = 5

Buildings Within 2-Mile Radius

7,638 based on 29,024 persons and 3.8 persons per building.  
Score = 5



DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No incident observed or reported.  
Score = 0

\* \* \*

2 ACCESSIBILITY

Describe type of barrier(s):

The site is boarded up, properly secure with doors and  
locks. [B-1-8-14]  
Score = 0

\* \* \*

3 CONTAINMENT

Type of containment, if applicable:

Fourteen pits open to the air. The structure of the pit is  
concrete.  
Score = 15

\* \* \*

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

P.C.B. and heavy metals.

Compound with highest score:

P.C.B.  
Score = 3

5 TARGETS

Population within one-mile radius

8,834 persons based on 351 buildings assumed to house 3.8 persons each and 25 percent of the city of Poughkeepsie (pop. 30,000). [3,4]  
Score = 5

Distance to critical habitat (of endangered species)

Greater than one mile.  
Score = 0

REFERENCES

## REFERENCES

If the entire reference is not available for public review in the EPA regional files on this site, indicate where the reference may be found:

Reference Number	Description of Reference
1	Simmons, E., Groundwater Resources of Dutchess County, NY, USGS Bulletin GW-43, 1961, pp. 6,12, 15-20,35,63,72,75,76.
2	Uncontrolled Hazardous Waste Site Ranking System; A Users Manual, USEPA, 1984.
3	New York State Atlas of Community Water System Sources, New York State Department of Health, 1982, p. 66.
4	Poughkeepsie Quadrangle Map, United States Department of the Interior Geologic Survey, 1957.
5	Robert T. Kennedy (Kramer Environmental), Letter to Donn Courselle (Robert-Mark), May 14, 1987. (see Appendix)
6	U.S.G.S. House Count.
7	Ram Pergadia NYSDEC Region III Wetland Information.

REF. 1-1-14

STATE OF NEW YORK  
DEPARTMENT OF CONSERVATION  
WATER RESOURCES COMMISSION

# Ground-Water Resources of Dutchess County, New York

By

E. T. SIMMONS, I. G. GROSSMAN, AND R. C. HEATH  
Geologists, U. S. Geological Survey



*Prepared by the*  
U. S. GEOLOGICAL SURVEY  
*in cooperation with the*  
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BULLETIN GW-43

ALBANY, N. Y.

1961

## GEOGRAPHY

Location and Setting

Dutchess County is in southeastern New York State, about halfway between New York City and Albany. It is one of a row of counties east of the Hudson River that border on the New England States. The county is bordered on the east by the State of Connecticut, on the south by Putnam County, on the west by the Hudson River, and on the north by Columbia County and the Commonwealth of Massachusetts.

Dutchess County is rectangular in outline and has an area of 316 square miles. It extends about 34 miles in a north-south direction and 22 miles in an east-west direction. Most of it lies between meridians  $73^{\circ}30'$  and  $73^{\circ}59'$  west longitude and parallels  $41^{\circ}30'$  and  $42^{\circ}04'$  north latitude. The population of the county in 1950 was 136,791, about 40 percent of which was concentrated in the cities of Poughkeepsie and Beacon.

Topography

The surface of Dutchess County is moderately irregular, consisting of an almost continuous alternation of hills and valleys (pl. 1). Flat areas, though present in most parts of the county, are generally small and occupy a minor proportion of the area. The county is divided on the basis of topography into two relatively distinct parts. The smaller of these consists of the area in the northwestern part of the county west of Wappinger Creek and longitude  $73^{\circ}45'W$ . This area is characterized by numerous small, irregularly shaped hills, most of which range in height from about 20 to about 100 feet above the intervening valleys. Scattered throughout the area, however, are a few small, regularly shaped hills that rise 200 to 300 feet or more above the adjacent valleys. Altitudes in this area range from about 40 feet above sea level near the Hudson River to about 900 feet above sea level at Old Round Top. Drainage is not so well developed as in the remainder of the county, as indicated by the presence of numerous swamps.

The remainder of the county--that is, east of longitude  $73^{\circ}45'W$  in the northern part of the county and east and south of Wappinger Creek in the central and southern parts of the county--is characterized by numerous regularly shaped hills and low mountains. These are larger and generally higher than those in the northwestern part. Many of the hills in this area range in altitude from 500 to 1,000 feet above the floors of the valleys. The highest altitudes generally occur along the southern and eastern boundaries of the county. South Beacon Mountain, near the southwest corner of the county reaches an altitude of 1,602 feet above sea level. Grace Mountain, in the extreme northeast corner, reaches an altitude of 2,311 feet above sea level, the highest point in the county. South Beacon Mountain and the other mountains in the southern part of the county mark the northern limit of the Hudson Highlands, a belt of northeast-trending mountains under-

## GEOLOGY

Ground water occurs in all the geologic formations in Dutchess County and most of these are important sources of water. With respect to the principal kinds of openings in which the water occurs, these formations are placed in two major groups: (1) consolidated rocks that range in age from Precambrian to Ordovician, and (2) unconsolidated deposits of Pleistocene and Recent age. The areal extent of the different bedrock formations is shown on plate 2. These rocks underlie the entire county and crop out at the surface principally on hillsides and hilltops. In most of the county, however, the bedrock is overlain by unconsolidated deposits, which range in thickness from less than a foot on steep hills to more than 100 feet in some of the larger valleys. The areal extent of the different types of unconsolidated deposits is shown on plate 3. The principal events leading to the present-day distribution of the consolidated rocks and unconsolidated deposits in the county are described briefly in the following paragraphs. Although this report is a cooperative product of the New York Water Resources Commission and the U. S. Geological Survey, the geologic nomenclature does not necessarily follow that of the U. S. Geological Survey.

Geologic History

The oldest known strata in the county were laid down as clayey and limy mud and sand in a sea which covered the area in Precambrian time, more than 500 million years ago. After deposition, these strata were subjected to great heat and pressure which accompanied the intrusion of extensive masses of granite. The sediments were metamorphosed to a gneiss by the heat and pressure, and the gneiss is now so completely penetrated by the granite that the two look very much alike and hence are referred to on the bedrock map (pl. 2) as "undifferentiated granite and gneiss." The intrusion of the granite was followed by a long period of erosion during which the area was reduced to a low plain.

During the Cambrian, the first period of the Paleozoic era, the sea once again advanced over the area. A thick mass of sediments, consisting chiefly of sand and limy mud, collected on the sea floor. Deposition of limy mud and of clay and sandy clay continued into the succeeding Ordovician period. All these sediments were subsequently consolidated into beds of sandstone, limestone, and shale. At the end of the Ordovician, these beds were folded, metamorphosed, and raised above sea level during an episode of mountain-making known as the Taconic orogeny. During this orogeny the sandstone, limestone, and shale in the southern and eastern parts of the county were converted, through metamorphism, to quartzite, marble, and phyllite and schist. During and following the Taconic orogeny the area was subjected to another long period of erosion. Some deposition may have occurred in the general area during subsequent periods of the Paleozoic era, although no bedrock younger than Ordovician is known to occur. Crustal movements near the end of Devonian time known as the Acadian disturbance, during which rocks in areas to the north and west were faulted, also may have affected the rocks in Dutchess County.

## Consolidated Rocks

The bedrock underlying the county is composed of highly metamorphosed rocks of Precambrian age, and partially metamorphosed rocks of Paleozoic age. The older rocks, those of Precambrian age, consist mainly of granite and gneiss. The younger rocks, of Paleozoic age, consist of a larger variety of rock types, including quartzite, limestone, dolomite, marble, shale, phyllite, slate, and schist. Differences in age, degree of metamorphism, and lithology influence the water-bearing properties of the consolidated rocks. Thus, as an aid in understanding the occurrence of ground water in these rocks in different parts of the county, each of the principal types, as differentiated in table 2, is discussed separately in the following paragraphs.

Undifferentiated granite and gneiss.--Almost a tenth of Dutchess County, is underlain at or near the surface by masses of northeast-trending igneous and metamorphic rocks of Precambrian age consisting chiefly of granite and gneiss. The largest mass underlies the southern part of the county from the Hudson River to the Connecticut State line. This mass ends abruptly 2 to 3 miles north of the southern border of the county against a series of sub-parallel major faults (pl. 2). Erosion of less resistant Paleozoic rocks north of the faults has resulted in a row of granite and gneiss spurs which are prominent topographic features in the southern part of the county.

The second largest mass of granite and gneiss underlies the group of prominent hills east of Dover Plains. Smaller bodies of granite and gneiss crop out at Corbin Hill, north of Pawling; at Stissing Mountain, west of Pine Plains; northeast of Beacon; and south of Sprout Creek, a few miles southeast of Poughkeepsie (pl. 2). The elongate mass northeast of Beacon has been called the Matteawan granite (Mather, 1843, pl. 18) and the Glenham gneiss (Gordon, 1911, p. 18). In the southwestern part of the county, the granite was subdivided into the Canada Hill granite and Storm King granite by Berkeley and Rice (1921). The gneiss, which contains some schist and limestone, was called "Grenville gneiss and schists" by Berkeley and Rice. However, in an earlier study of the southwestern part of the county, Gordon (p. 11) grouped together all the granite and gneiss along the southwestern border of the county under the term "Precambrian gneisses."

Balk (1932 and 1936) mapped the same rocks in the eastern part of the county and made a detailed study of their structure. In his reports, and in a report by Barth (1936), the granite and gneiss were combined into one major group, undifferentiated Precambrian gneiss. Because these rocks have not been further subdivided in the eastern part of the county and because there appear to be no significant differences in their water-bearing properties, the granites and the gneisses are grouped together in this report as "undifferentiated granite and gneiss."



In physical appearance, most of the granite and gneiss consists of light and dark minerals presenting a speckled appearance (granite) or arranged in layers (gneiss). The light minerals consist chiefly of quartz, feldspar, and white mica (muscovite). The dark minerals include black mica (biotite), garnet, and hornblende. Extensive and readily accessible exposures of gneiss can be seen in road cuts along the Taconic State Parkway near the Putnam County line. These rocks are more resistant to weathering than the younger Paleozoic rocks, as is reflected by the more rugged topography and higher altitudes in areas where they crop out. Most of the layers (foliation) in the granite and gneiss strike northeast, approximately parallel to the long axis of the Hudson Highlands, and dip steeply to the southeast. Exceptions occur near thrust faults where the strike and dip of the foliation parallel the faults. Most of the large and prominent spurs underlain by granite and gneiss in the southern part of the county point northeastward, and the long axes of the smaller bodies also are aligned in that direction.

Cheshire quartzite.--A compact, strong quartzite, which is so tough that it is deliberately avoided by some drillers, crops out at a few localities in Dutchess County. This quartzite has been called the Poughquag quartzite by Berkeley and some other geologists working in New York. It is called the Cheshire quartzite in this report, after its type locality at Cheshire, Berkshire County, Mass. (Emerson, 1917, p. 32-34). The quartzite unconformably overlies the Precambrian granite and gneiss and is the oldest Paleozoic rock in the county. In the southern and eastern parts of the county the quartzite forms the flanks of the higher ridges that are underlain by granite and gneiss. In the east-central part of the county, quartzite underlies several areas along the southern and western borders of the granite and gneiss in the vicinity of Dover Plains. Quartzite is present also in the southern part of Stissing Mountain in the north-central part of the county.

The Cheshire quartzite ranges in thickness from a few feet to about 600 feet. A thickness of about 250 feet has been reported at Stissing Mountain (Knopf, 1956, p. 11). The base of the formation may be conglomeratic and the top contains shaly beds in some places. In general, the quartzite is less strongly metamorphosed in the west than in the east. Some outcrops in the western part of the county still retain original sedimentary features, including bedding, crossbedding, and ripple marks. In the southeast, however, the original bedding has been destroyed by fracturing and recrystallization.

Where the Cheshire quartzite is composed almost entirely of quartz, it is white. Where small amounts of feldspar, mica, and other impurities are mixed with the quartz, it is pink or buff.

The Cheshire is not important as a source of ground water because of its small areal extent and because it underlies steeply sloping hillsides which are sparsely settled. Only five wells in the county are known to tap quartzite; these are listed in table 13.

Stockbridge limestone.--Over the Cheshire quartzite is a thick sequence of carbonate rocks, which underlie a much greater part of the county than the quartzite. In the east, carbonate rocks lie beneath the broad Harlem Valley, which contains Tennile River and its principal tributaries and which extends almost without interruption from the Putnam County line to the Columbia County line. In the south, the valley of Fishkill Creek is underlain by limestone which extends from Beacon northeastward to the head of the creek. Other areas in the western and central parts of the county also are underlain by elongate masses of carbonate rocks (pl. 2).

Several different names have been applied to the carbonate rocks in different parts of the county, including Barnegat limestone (Mather, 1843, p. 410), Fishkill limestone (Gordon, 1911, p. 70), and Wappinger limestone (Gordon, p. 48). Knopf (1956, p. 1817) found that the carbonate rocks near Stissing Mountain range in age from Early Cambrian to Early Ordovician and divided them into the Stissing dolomite, Pine Plains formation, Briarcliff, dolomite, Halcyon Lake formation, and Rochdale limestone. Because there appear to be no essential differences in the water-bearing properties of the carbonate rocks, all are included in this report under the Stockbridge limestone, after the locality in Massachusetts where they were first described (Emmons, 1842, p. 154-155).

The carbonate rocks range in composition from almost pure calcium carbonate (limestone) to almost pure calcium-magnesium carbonate (dolomite). Limestone is more abundant in the upper part of the sequence and dolomite is more common in the lower part. Table 3 lists an analysis of a typical sample of dolomite from the Stockbridge limestone.

This analysis shows that more than 10 percent of the dolomite consists of impurities, chiefly silica and alumina. In some localities these impurities are abundant enough to form sandy and shaly beds in the Stockbridge.

1-7-14

Table 3.--Chemical composition of dolomite 1/ from the  
Stockbridge limestone

Determination	Percent by weight
Lime (CaO).....	29.07
Magnesia (MgO).....	16.29
Carbonic acid (H <sub>2</sub> CO <sub>3</sub> ).....	40.76
Alumina (Al <sub>2</sub> O <sub>3</sub> ).....	2.33
Ferric oxide (Fe <sub>2</sub> O <sub>3</sub> ).....	.47
Silica (SiO <sub>2</sub> ).....	10.17
Total.....	99.09

1/ Collected at the Stoneco quarry of the Clinton Point  
Stone Co. about 4 miles south of Poughkeepsie.  
Analysis from Ries (1901, p. 779).

The metamorphism of the Stockbridge limestone generally increases in intensity from northwest to southeast. In the northwest and west, the formation is relatively undisturbed and original bedding is easily visible. Fossils have been found in the formation as far south as Clove Valley. Farther east, however, as in the Valley of Swamp River, the formation has been metamorphosed to a marble and the beds are severely folded. Balk noted that the folding is greater in the thin layers than in the thicker ones and that it is greatest near thrust faults. In the southeastern part of the county, the marble has been so severely deformed by plastic flow that it appears to be wrapped around stronger rocks. South of Pawling, the marble contains masses of schist that are folded and faulted into the limestone.

The deformation of the Stockbridge limestone makes it difficult to determine its thickness. In southwestern Putnam County, where the formation is relatively undisturbed, the thickness is about 1,000 feet. At Stissing Mountain, near Pine Plains in the north-central part of Dutchess County, the thickness of the different limestones and dolomites measured by Knopf (1946, p. 1211) totals 2,800 feet. The thickness of the carbonate rocks is

probably about 1,000 feet in most places in the county. The Stockbridge limestone weathers readily and commonly forms valley and lowland areas. In the valley of Fishkill Creek, solution cavities filled with clay and sand have been reported.

Hudson River formation.--The Hudson River formation is the most extensive bedrock unit in the county. As may be seen from plate 2, it extends from the Hudson River in the west to the Connecticut State line in the east, interrupted by only a few relatively narrow limestone belts. The name "Hudson River slate group" was first used by Matner (1840, p. 212, 255-256) for the slaty rocks in the southeastern part of the State. Gordon (1911) mapped these rocks in the Poughkeepsie quadrangle as the "Hudson River group." Berkey and Rice (1921) mapped the same rocks in southwestern Dutchess County as "Hudson River shales and phyllites." In the southeastern part of the county these rocks are referred to as "Hudson River pelite" in publications by Balk (1936) and Barth (1936). In the Copake quadrangle in southeastern Columbia County, the names Elizaville shale (mainly Cambrian, possibly including some Lower Ordovician), Berkshire schist (Ordovician), and Trenton black slate (Ordovician) have been used by Weaver (1957, pl. 1) for rocks that extend southward into northeastern Dutchess County. Ruedemann (1942) divided the predominantly argillaceous rocks in the Catskill quadrangle, in northwestern Dutchess County, into the Nassau beds and Schodack shale (including Bomoseen grit) of Cambrian age, and the Deepkill shale and Normanskill shale (including the Mount Merino member and the Austin Glen member) of Ordovician age. As used in this report, the Hudson River formation includes all the argillaceous and schistose rocks in Dutchess County.

Although the Hudson River formation is preponderantly argillaceous, it includes a large variety of rock types. The lower part of the unit contains much sandstone ("grit") and is locally called bluestone by some well drillers. The unit also contains chert and beds of sandstone, limestone, and conglomerate. Quartz veins are very abundant. The shale itself is locally black, gray, red, or green.

The metamorphism of the Hudson River formation increases in intensity from northwest to southeast, just as in the Stockbridge limestone. At Red Hook, in the northwestern part of the county, the unit is a shale. The shale grades imperceptibly southeastward into a slate and then into a lustrous phyllite. Between the valley of Wappinger Creek and the headwaters of Fishkill Creek, it is chiefly a phyllite. Farther southeast, between Fishkill Creek and the Harlem Valley it is predominantly a garnet-bearing schist. In the extreme southeastern part of the county, east of Pawling, it is a gneissic schist. The gneissic schist in this area contains amphibolite lenses and pegmatite intrusions.

The change in metamorphism is accompanied by a change in mineral composition. In the relatively unmetamorphosed phases of the formation in the northwestern and central parts of the county, the chief minerals are quartz and mica. In the strongly metamorphosed phase in the southeast, feldspar is an important additional constituent. Table 4 includes chemical analyses of rocks from various parts of the Hudson River formation, ranging from the relatively unmetamorphosed "slate" near Lagrangeville to the highly metamorphosed gneiss east of Pawling. There appear to be no radical chemical differences among the different samples. From the standpoint of mineral composition, however, the gneiss shows a greater percentage of feldspar (plagioclase) and a smaller percentage of white mica (muscovite) than does the slate and phyllite.

The structure of the Hudson River formation, like the mineral composition, changes progressively from northwest to southeast. In the relatively unmetamorphosed rocks between the valleys of Wappinger Creek and Fiskill Creek small closely spaced subparallel joints resulting from slaty cleavage are numerous. The spacing of these joints ranges from a fraction of an inch to several inches, and is wider in the more sandy parts of the formation. Openings of the bedding-plane type can be recognized in this area and to the northwest. In the southeastern part of the county, slaty cleavage is absent and the rocks are massive. Joints that are present are spaced from a few inches to several feet apart, rather than inches or fractions of an inch.

The thickness of the Hudson River formation is unknown because the beds in the southeast and east have been severely folded and faulted and because elsewhere individual beds can not be traced over long distances. The apparent thickness of the formation in Dutchess County ranges from a few feet to several thousand feet. Most wells of average depth drilled in this unit are not likely to penetrate other rocks unless they are drilled near the contact with the underlying limestone.

The type of overlying material has an important effect on the yield of wells in bedrock. Table 7 shows that the average yield of wells tapping bedrock that is overlain by sand and gravel is more than 30 gpm. By contrast, the average yield of bedrock wells where the overlying material consists predominantly of clay or till is only about 13 gpm. Deposits of sand and gravel store large amounts of water and transmit water readily to the underlying bedrock where hydraulic continuity exists between the two materials. However, some of the large yields reported from bedrock wells overlain by sand and gravel may result from leakage of water from the overlying permeable deposits directly into the well. The yield of wells in bedrock where the overlying unconsolidated deposits are absent or are less than 10 feet thick is about the same, or only a little greater, than of wells where the overlying deposits are thicker but consist of impermeable till or clay. Thus, it may be concluded that thick but impermeable deposits which tend to retain the water above the bedrock have about the same effect on yield of bedrock as no overlying material at all.

Topographic location apparently affects the yield of bedrock wells in some areas (Ellis, 1909, p. 101). In Dutchess County, the yield is generally highest from bedrock wells situated in valleys and is lowest on hills. Table 8 shows that the average yield of wells in valleys is about 20 gpm compared to an average of about 16 gpm for wells on hillsides and an average of about 12 gpm for wells on hilltops. The Cheshire quartzite is not included in the table because only a few records of wells drawing from this formation are available. The influence of topography on the yields of wells apparently stems, at least in part, from the fact that the water table is generally closer to the land surface in valleys than on hills. Thus, wells of the same depth penetrate a greater thickness of saturated material in valleys than on hills and yield more water, other things being equal.

It should be emphasized that the factors affecting the yield of wells in bedrock are interdependent and tend to operate in the same direction. Thus, most wells drilled in valleys have comparatively large yields not only because of their favorable topographic location but also because the bedrock there is more permeable and is more likely to be overlain by permeable sand and gravel. Similarly, most wells drilled on hills yield smaller quantities of water not only because of a less favorable topographic situation, but also because the bedrock is less likely to be overlain by permeable deposits.

$$\{1, \dots, p_{n-1}, r\} \cup \{p^2, 2p-1, \dots, p^2-1\} \cup \{p, p_1, \dots, p_{n-1}\} \cup \{c_j, j=1, \dots, r\}$$
[illegible]







Table 13.—Depth of selected wells in Dutchess County (continued)

Well	Owner	Location	Altitude above sea level (feet)		Depth to bottom of well (feet)	Diameter of well (inches)	Depth to bottom of casing (feet)	Water-bearing formation	Water level below surface of well (feet)	Period of observation	Yield (gallons per minute)	Use	Remarks
			Top of well	Bottom of well									
W-1	Robert P. Gault	11.10, 1.12	420	170	6	6	96	Hudson River formation	--	--	6	Dom	Temperature 50° F., July 1969.
W-2	Gault Cabin Corp.	1.15, 1.15	560	76	6	6	16	do.	--	Det.	5	Dom	Well supplies camp.
W-3	Thurston Thorsley	1.15, 1.15, 1.02	360	155	6	6	6	do.	16	Force	--	Dom	
W-4	do.	1.15, 1.15, 1.02	160	60	6	6	10	do.	19	Dom	5	Dom	Yield inadequate.
W-5	Tommy Lee	1.15, 1.15, 1.12	200	112	6	6	40	do.	--	Det.	7	Dom	Temperature 50° F., July 1969. (a)
W-6	F. H. Bonnell High School	1.15, 1.15, 1.12	230	203	8	8	23	do.	--	Working	50	Dom	Well supplies 600 students. Temperature 50° F., 1969. (a)
W-7	W. F. Dorn	1.15, 1.15, 1.12	170	108	6	6	26	Onondaga quartzite	4	Working	2	Dom	(a) (b).
W-8	Peconic Mill Co.	1.15, 1.15, 1.12	250	15	6	6	3	Hudson River formation	12	do.	22	Dom	Temperature 50° F., July 1969. (a).
W-9	Old Peconic Inn	1.15, 1.15, 1.12	620	130	6	6	11	Stonycroft formation	26	Force	9	Dom	
W-10	International Business Machines Corp.	1.15, 1.15, 1.12	160	623	6	6	16	do.	21	--	10	--	
W-11	do.	1.15, 1.15, 1.12	100	603	6	6	--	do.	--	--	60	Ind	
W-12	do.	1.15, 1.15, 1.12	100	625	--	--	--	do.	--	--	20	--	
W-13	Payne Hicks	1.15, 1.15, 1.12	620	162	6	6	0	Hudson River formation	--	--	11	Dom	Yield by aquifer well was 15 ft deep and 11 gpm when well was 20 ft deep.
W-14	Carl Spitz	1.15, 1.15, 1.12	620	166	6	6	--	Pickering granite	7	Det.	60	Dom	Well finished with 6 ft of pickering granite. Temperature 50° F., August 1969. (a) (b).
W-15	Edwin Nelsons Engineering Co.	1.15, 1.15, 1.12	270	250	6	6	2	Hudson River formation	26	Working	12	PS	(a).
W-16	Swiss Pastoral	1.15, 1.15, 1.12	260	195	6	6	12	Stonycroft formation	21	Det.	5	Dom	Temperature 50° F., August 1969.
W-17	Green School	1.15, 1.15, 1.12	190	215	8 to 6	6	36	Hudson River formation	47	do.	27	Dom	Domestic use. It allows pumping 27 gpm for 24 hrs. Temperature 50° F., August 1969. (b).
W-18	Carl Tobias	1.15, 1.15, 1.12	270	130	6	6	38	do.	15	do.	19	Dom	Domestic use. It allows pumping 12 gpm for 24 hrs. Temperature 50° F., August 1969. (a).
W-19	Spencer Lake Corp.	1.15, 1.15, 1.12	570	186	6	6	6	do.	30	--	15	Dom	Domestic use. It allows pumping 15 gpm for 24 hrs.
W-20	W. F. Dorn	1.15, 1.15, 1.12	620	165	6	6	4	do.	15	Det.	10	Dom	Domestic use. It allows pumping 10 gpm for 24 hrs.
W-21	Pine Plains Water Co.	1.15, 1.15, 1.12	665	248	6	6	101	Stonycroft formation	16	Working	270	PS	Domestic use. It allows pumping 270 gpm for 24 hrs. (a) (b).
W-22	Frank Tompkins	1.15, 1.15, 1.12	270	177	6	6	62	Hudson River formation	21	Det.	10	Dom	Temperature 50° F., August 1969.
W-23	Old Dutch Mill Factory	1.15, 1.15, 1.12	170	110	7	7	42	Stonycroft formation	12	Force	20	Dom	Domestic use. It allows pumping 20 gpm for 24 hrs. (a) (b).
W-24	do.	1.15, 1.15, 1.12	520	62	6	6	21	Hudson River formation	35	Det.	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-25	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-26	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-27	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-28	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-29	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-30	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-31	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-32	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-33	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-34	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-35	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-36	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-37	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-38	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-39	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-40	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-41	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-42	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-43	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-44	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-45	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-46	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-47	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-48	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-49	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-50	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-51	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-52	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-53	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-54	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-55	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-56	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-57	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-58	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-59	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-60	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-61	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-62	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-63	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-64	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-65	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-66	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-67	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-68	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-69	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-70	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-71	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-72	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-73	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-74	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-75	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-76	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-77	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-78	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-79	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-80	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-81	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-82	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-83	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-84	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-85	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-86	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-87	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-88	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-89	do.	1.15, 1.15, 1.12	520	115	7	7	27	Stonycroft formation	42	--	11	Dom	Domestic use. It allows pumping 11 gpm for 24 hrs.
W-90	do.	1.15, 1.15, 1.12	520	11									

# **Uncontrolled Hazardous Waste Site Ranking System**

## **A Users Manual** (HW-10)

Originally Published in  
the July 16, 1982, *Federal Register*

United States  
Environmental Protection  
Agency

1984



New York State Atlas of  
**Community Water System Sources**  
1982

NEW YORK STATE DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL PROTECTION  
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

**DUTCHES COUNTY**

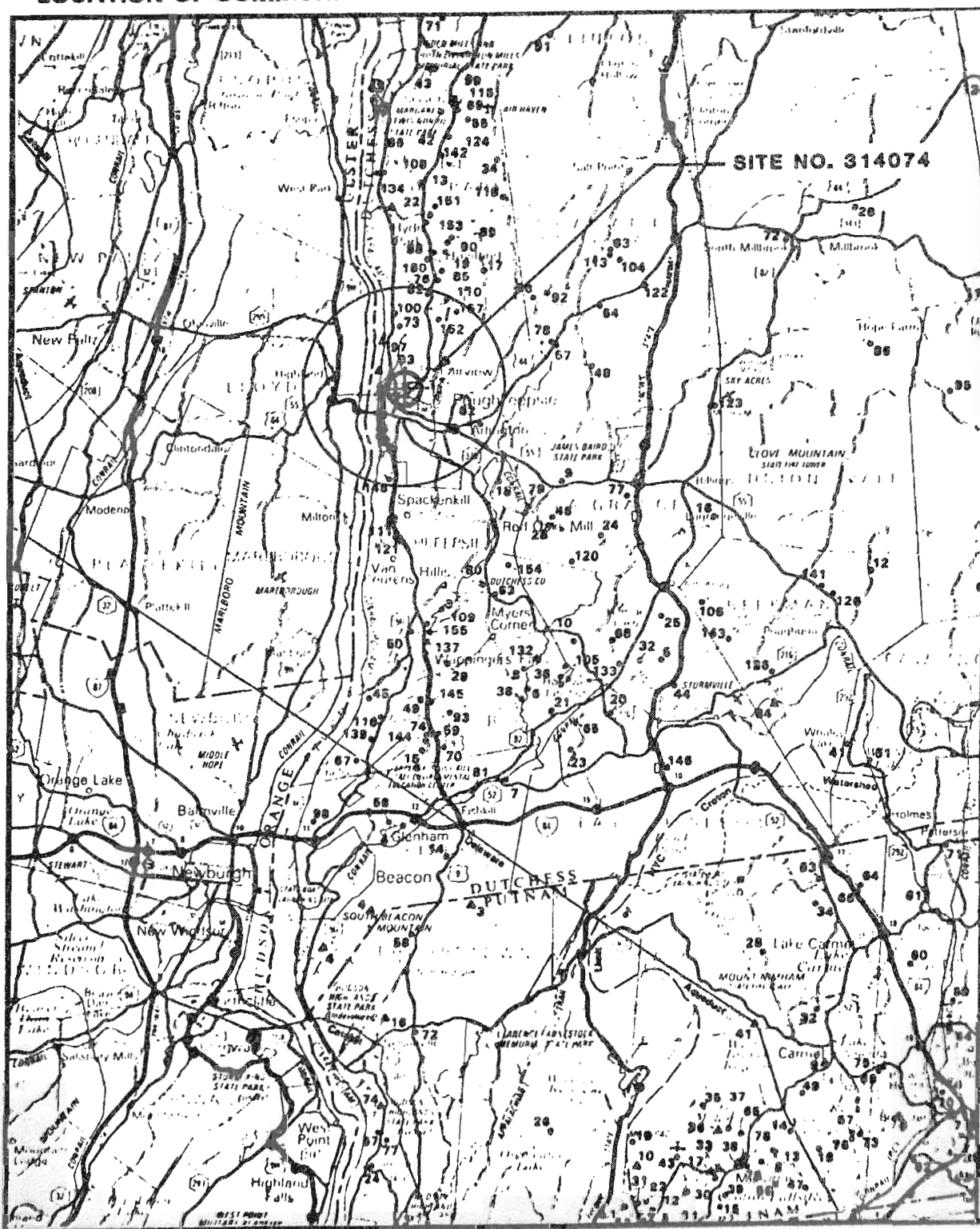
[illegible]

COMMUNITY WATER SYSTEM	POPULATION	SEWER
81 Mc Williams Community	30	sewils
82 Mickey Hill Mobile Home Park	250	sewils
93 Midway Trailer Apartments	80	sewils
94 Midway Trailer Apartments	80	sewils
95 High Meadows Park Inc.	196	sewils
96 McLean Trailer Park Inc.	196	sewils
97 McLean Trailer Park Inc.	2000	modsan
98 Midway Trailer Park	1800	sewils
99 Midway Trailer Park	70	sewils
99 Midway Trailer Park	70	sewils
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199 Midway Trailer Park	70	sewils
200 Midway Trailer Park	70	sewils

NEW YORK STATE DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL PROTECTION  
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

# LOCATION OF COMMUNITY WATER SYSTEM SOURCES-1982

3-3-3



DUTCHESS COUNTY

SCALE 1:250,000

0 MILES

NORTH

FIGURE NO. 1

# SCHATZ PLANT



COORDINATES:

LAT. 41 43, 00"  
LONG. 73 55' 20"

0 1000 2000  
SCALE (FEET)

MAP SOURCE  
U.S.G.S. POUGHKEEPSIE QUAD.  
NEW YORK - DUTCHESS CTY.  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
1937 EDITION





RECEIVED

MAY 21 1987

220073

Kramer  
Environmental  
DIVISION OF  
KRAMER INDUSTRIES  
100 NEWPORT RD  
CLINTON, N.Y. 12523

NEW JERSEY 201-427-  
609 AREA CODE ONLY - 500-322  
N.Y., P.A., CT., MD., DE., 800-667

May 14, 1987

Mr. and Mrs. Louiselle  
Robert-Mark  
P.O. Box 308, Rt. 52  
Hopewell Junction, NY 12533

Dear Donna:

Enclosed you will please find the laboratory reports on the pit and transformer samples taken on April 20, 1987 by our field team at the 1929 Associates facility in Poughkeepsie, New York.

As per my quote of April 13, 1987, two oil, two water and two sludge composites were made of the materials in the 14 on-site pits in order to reduce analytical laboratory costs. Included in our quote was the provision that should any composite test positive for PCB's, all individual samples in the composite would have to be tested.

As indicated by the reports, both pit composites (A and B) came up positive with levels exceeding 50 ppm of PCB's, the allowable non-hazardous landfill limit.

All pits must now be sampled and tested individually to determine if they are contaminated.

The attached proposal is for the complete testing of all individual pits.

After this information has been obtained, we will issue a quote for the total site clean-up.



REF. 6-1-2

GIBBS & HILL, INC.  
SITE: SCHATZ PLANT

U.S.G.S. House Count  
(See Attached Diagram)

	<u>1 Mile (A)</u>	<u>2 Miles (B)</u>	<u>3 Miles (C)</u>
I.	119	473	430
II.	111	160	633
III.	33	114	394
IV.	<u>88</u>	<u>224</u>	<u>519</u>
	351	971	1976
	<u>x 3.8</u>	<u>x 3.8</u>	<u>x 3.8</u>
	1334	3690	7509
Total Population	<u>1 Mile</u> 1334	<u>2 Miles</u> 5024	<u>3 Miles</u> 12533

Population Count

6-2-2

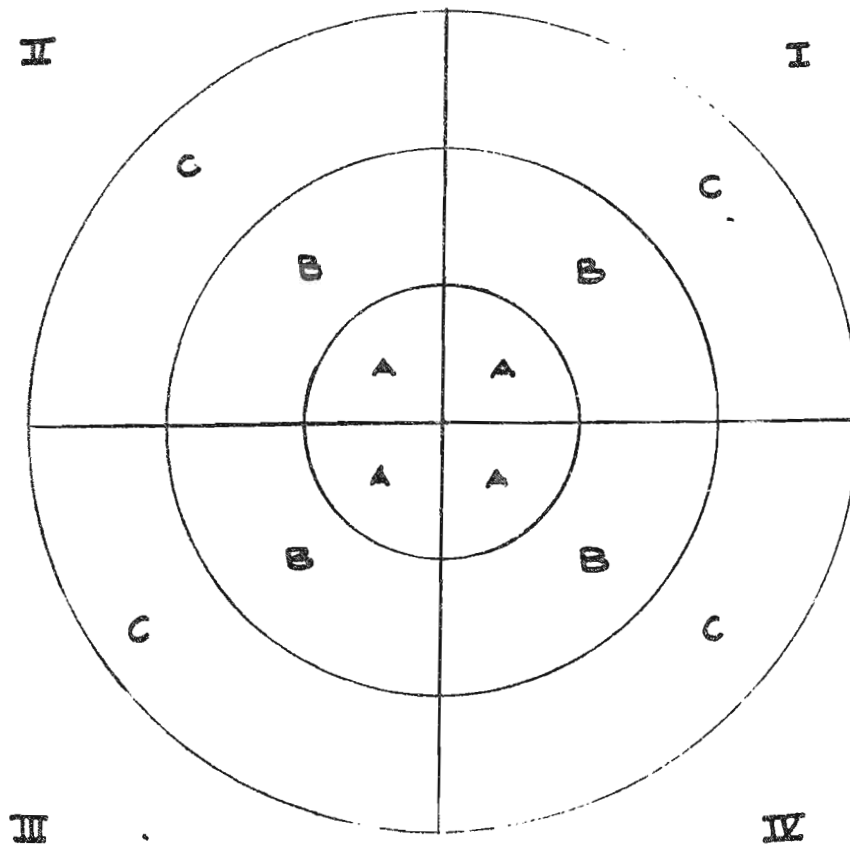
Population within 3 mile radius of each Phase I site is determined using the coordinates system illustrated below. The number of residences for each quadrant and section is determined by overlaying this pattern onto a USGS 7.5 minute topographic map. A multiplier of 3.8 persons per residence is used to determine population in accordance with Mitre Model 1985.

A = 1 Mile radius

B = 2 Mile radius

C = 3 Mile radius

(Figure not To Scale )



SPEED MEMO

REF. 7-1-2

TO: AMIN KAZEMI, GIBBS & HOLT DATE: May 31, 88

SUBJECT: 5 Hectare Wetlands

FROM: Ron PERGARDT, *lynd* near Superfund site

Regulated Wetlands near the following sites are  
marked up on copies of quad sheets for your  
information as requested

336030 Middleton Coal Gas

344026 North Ford Plant

336007 Orange County L.F.

314002 Pandling Rubber

344031 Spruce Hardware

314074 Schatz Plant

344027 Ramapo L.F.

336008 Star Expansion

~~etc.~~

The information on critical habitats near these  
sites ~~so~~ may be obtained from Mr. John Gaud  
of the National Heritage Office in Albany at  
(518) 439-7486.

Please note that such information gathering  
tasks consume a lot of regional staff time and  
you are urged to keep it to a minimum.

cc - Marsden Ch., Albany 4010





5.5 EPA 2070-13



## Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
NYD 982531246

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Schatz Plant		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 70 Fairview Avenue			
03 CITY Poughkeepsie	04 STATE NY	05 ZIP CODE 12601	06 COUNTY Dutchess	07 COUNTY CODE	08 CONG. DIST.
09 COORDINATES LATITUDE 41° 43' 00.0 LONGITUDE 73° 55' 20.0		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 6, 17, 87 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1910+ 1981+ BEGINNING YEAR ENDING YEAR		UNKNOWN	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input checked="" type="checkbox"/> F. STATE CONTRACTOR Gibbs & Hill, Inc. <input type="checkbox"/> G. OTHER					

05 CHIEF INSPECTOR Leah Radko	06 TITLE Assistant Engineer	07 ORGANIZATION G&H	08 TELEPHONE NO. (212) 216-6107
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO. ( )
			( )
			( )
			( )
			( )
			( )

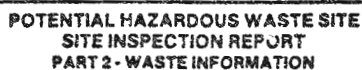
13 SITE REPRESENTATIVES INTERVIEWED Donn Courselle	14 TITLE Robert Mark Mang. Agents	15 ADDRESS P.O. Box 308 Hopewell Jt., NY 12533	16 TELEPHONE NO. (914) 221-3700
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 10:30 AM	19 WEATHER CONDITIONS Hot, Humid, Sunny
---	-----------------------------------	--

IV. INFORMATION AVAILABLE FROM

01 CONTACT Gibbs & Hill, Inc.	02 OF (Agency/Organization)	03 TELEPHONE NO. ( )		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Leah Radko	05 AGENCY	06 ORGANIZATION G&H	07 TELEPHONE NO. 212-216-6107	08 DATE 6, 17, 87 MONTH DAY YEAR





01 STATE	02 SITE NUMBER
NYD	982531246

## 01 PHYSICAL STATES (CASES AND PROBLEMS)

☐ A. SOLID                      ☐ E. SLURRY  
☐ B. POWDER, FINES        ☒ F. LIQUID  
☒ C. SLUDGE                ☐ G. GAS  
☐ D. OTHER \_\_\_\_\_ (Specify)

## 02 WASTE QUANTITY AT SITE

(Information of weight quantities must be independent)

TONS \_\_\_\_\_

CUBIC YARDS \_\_\_\_\_ 54

NO. OF DRUMS \_\_\_\_\_ 5

## 03 WASTE CHARACTERISTICS (Check all that apply)

<input type="checkbox"/> A. TOXIC	<input type="checkbox"/> E. SOLUBLE	<input type="checkbox"/> I. HIGHLY VOLATILE
<input type="checkbox"/> B. CORROSIVE	<input type="checkbox"/> F. INFECTIOUS	<input type="checkbox"/> J. EXPLOSIVE
<input type="checkbox"/> C. RADIOACTIVE	<input type="checkbox"/> G. FLAMMABLE	<input type="checkbox"/> K. REACTIVE
<input type="checkbox"/> D. PERSISTENT	<input type="checkbox"/> H. IGNITABLE	<input type="checkbox"/> L. INCOMPATIBLE
		<input type="checkbox"/> M. NOT APPLICABLE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	Not Known		At Bottom of Pits.
OLW	OILY WASTE			In Pits.
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			In Pits.
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			In Pits.

#### IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

[illegible]

## V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	O1 FEEDSTOCK NAME	O2 CAS NUMBER	CATEGORY	O1 FEEDSTOCK NAME	O2 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

## VI. SOURCES OF INFORMATION (Cite specific references, e.g., press files, seminar material, reports)

- Kramer Environmental
- DEC File
- Environmental Profile Laboratories



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION  
01 STATE: 02 SITE NUMBER  
NYD 982531246

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 13,915 04 NARRATIVE DESCRIPTION

There are eight (8) non-municipal community wells within 2 and 3 mile radius and private wells serving a total population of 13,915 persons.

01 ☐ B. SURFACE WATER CONTAMINATION None 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

All chemicals and oil drums were removed and disposed of properly to a nearby landfill. The remaining 14 pits of oil and chemicals inside the Schatz Plant were boarded up all around and secured with doors and locks.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: Unknown 04 NARRATIVE DESCRIPTION

No incident reported.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 8,834 04 NARRATIVE DESCRIPTION

The plant is secured with wooden enclosure, doors and locks and no access to the public. However, due to presence of flammable oils and chemicals in the pits and unpredictable spark, the potential of fire and explosion still remains.

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: None 04 NARRATIVE DESCRIPTION

The area is secured with enclosure, doors and locks. No access to the public.

01 ☐ F. CONTAMINATION OF SOIL Unknown 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED: (Area) 04 NARRATIVE DESCRIPTION

The depth and structure of the pits is not known.

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 13,915 04 NARRATIVE DESCRIPTION

There are 13,915 persons served by groundwater within 3-mile radius and there is a possible migration of contaminants to groundwater.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

None reported.

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

None reported.

NYD 982531246

None evident.

01 ☐ K DAMAGE TO FAUNA 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION: Positive reports of species

None evident.

01 ☐ L CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

No farmland within 3 miles of the site.

01 ☐ M UNSTABLE CONTAINMENT OF WASTES 02 ☐ OBSERVED (DATE 6/17/87) ☐ POTENTIAL ☐ ALLEGED  
(Spills, Runoff, Seeping liquids, Leaking drums)  
03 POPULATION POTENTIALLY AFFECTED 8,834 04 NARRATIVE DESCRIPTION

There are fourteen (14) unlined concrete pits filled with chemicals and oil. There is a possible migration of contaminants to groundwater due to porous nature of concrete.

01 ☐ N DAMAGE TO OFFSITE PROPERTY 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

Commercial buildings surrounding the plant will be damaged tremendously due to possible fire and explosion. Threat remains with the presence of oil and chemicals in the pits.

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

Sewer/storm drain location undetermined.

01 ☐ P ILLEGAL/UNAUTHORIZED DUMPING 02 ☐ OBSERVED (DATE \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

None.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None.

RE TOTAL POPULATION POTENTIALLY AFFECTED: 13,915

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., 2000 1982, sample analysis, reports)

G&H Site Inspection, USGS Quad Poughkeepsie, NYS Atlas of Community Water System Sources 1982, City & Town of Poughkeepsie Planning Departments.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
NYD 982531246

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	2
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	1/4 (Acres)
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input checked="" type="checkbox"/> I. OTHER <u>Open Pits</u> <u>Unknown</u> (standing liquid)				

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)  
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DRUMS, LINERS, BARRIERS, ETC.

There are fourteen (14) unlined open chemical and oil concrete pits.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO  
02 COMMENTS

The plant is boarded up all around and properly secure with doors and locks. However, the pits are open.

VI. SOURCES OF INFORMATION (See specific references, e.g. state files, survey analysis, reports)

- Site Visit.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
NYD 982531246

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)	02 STATUS	03 DISTANCE TO SITE															
<table border="1"><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input checked="" type="checkbox"/></td><td>B. <input type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input type="checkbox"/></td><td>D. <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>	NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table border="1"><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td><td>C. <input checked="" type="checkbox"/></td></tr><tr><td>D. <input type="checkbox"/></td><td>E. <input type="checkbox"/></td><td>F. <input checked="" type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input checked="" type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input checked="" type="checkbox"/>	A. 0.89 (mi) B. 0.07 (mi)
SURFACE	WELL																
COMMUNITY A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>																
NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input checked="" type="checkbox"/>															
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input checked="" type="checkbox"/>															

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)				
<input type="checkbox"/> A. ONLY SOURCE FOR DRINKING <input checked="" type="checkbox"/> B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (Use other water source code available)				
<input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) <input type="checkbox"/> D. NOT USED, UNUSABLE				
02 POPULATION SERVED BY GROUND WATER 13,915 persons		03 DISTANCE TO NEAREST DRINKING WATER WELL (mi)		
04 DEPTH TO GROUNDWATER 24 (ft)	05 DIRECTION OF GROUNDWATER FLOW West	06 DEPTH TO AQUIFER OF CONCERN 26 (ft)	07 POTENTIAL YIELD OF AQUIFER 72,000 (gpd)	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

09 DESCRIPTION OF WELLS (including location, depth, and location relative to population and buildings)

Three industrial wells are on-site and have been closed down. The site is on public water.

10 RECHARGE AREA

☒ YES COMMENTS Surficial deposits  
☐ NO permit recharge to bedrock aquifer

11 DISCHARGE AREA

☐ YES COMMENTS  
☒ NO

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION  
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY  
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
Hudson River	<input type="checkbox"/>	0.89 (mi)
Morgan Lake	<input type="checkbox"/>	0.61 (mi)
Inwood Lake	<input type="checkbox"/>	0.34 (mi)
College Hill Park Reservoir	<input type="checkbox"/>	0.38 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. 8,834 NO. OF PERSONS	TWO (2) MILES OF SITE B. 29,024 NO. OF PERSONS	THREE (3) MILES OF SITE C. 32,533 NO. OF PERSONS	0.004 (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 7,638			04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.004 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Site is located in a heavily developed area, including residential, commercial and industrial portions.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
NYD 982531246

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-6}$  -  $10^{-8}$  cm/sec ☐ B.  $10^{-4}$  -  $10^{-5}$  cm/sec ☒ C.  $10^{-4}$  -  $10^{-3}$  cm/sec ☐ D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE  
(Less than  $10^{-6}$  cm/sec)  
☒ B. RELATIVELY IMPERMEABLE  
( $10^{-6}$  -  $10^{-5}$  cm/sec)  
☐ C. RELATIVELY PERMEABLE  
( $10^{-2}$  -  $10^{-4}$  cm/sec)  
☐ D. VERY PERMEABLE  
(Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

26 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

Unknown (ft)

05 SOIL pH

Unknown

06 NET PRECIPITATION

14 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.85 (in)

08 SLOPE

Less than 3%

DIRECTION OF SITE SLOPE

Leveled

TERRAIN AVERAGE SLOPE

Less than 3%

09 FLOOD POTENTIAL

N/A

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. 1.42 (mi)

B. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

N/A

ENDANGERED SPECIES: (mi)

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

A. 0.004 (mi)

B. 0.03 (mi)

C. N/A (mi)

D. N/A (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site has an elevation of 175 feet above sea level and is located on a level area north west of College Hill. The site is entirely paved and has a slope of less than 3%.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., site files, sample analyses, reports)

- USGS Bull. GW-43.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
NYD 982531246

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	None		
SURFACE WATER	None		
WASTE	8	Environmental Profile Laboratories	4/22/87
AIR	None		
RUNOFF	None		
SPILL	None		
SOIL	None		
VEGETATION	None		
OTHER	None		

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Distance	

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>Gibbs &amp; Hill, Inc.</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>Gibbs &amp; Hill, Inc.</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None.

VI. SOURCES OF INFORMATION (List specific references, e.g., state laws, contract analysis reports)

- Field visit
- Environmental Profile Laboratories



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
NYD 982531246

II. CURRENT OWNER(S)

01 NAME 1929 Associates		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 319 Main Mall		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Poughkeepsie		06 STATE NY		07 ZIP CODE 12602		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME Schatz Federal Bearing Co.		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	

V. SOURCES OF INFORMATION (Cite specific references, e.g., owner files, company records, etc.)





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
NYD 982531246

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (if applicable)

01 NAME N/A		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

01 NAME Schatz Federal Bearing Co.		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., logs, files, sample analysis, reports)

Realty Agents for Property: Robert Mark Managing Agents  
P.O. Box 308  
Hopewell Jt., NY 12533

Attorney for Owners: Hankin, Hanig, Stall & Shafrin  
319 Main Mall Rear  
P.O. Box 911  
Poughkeepsie, NY 12602



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
NYD 982531246

II. ON-SITE GENERATOR

01 NAME N/A	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME N/A	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME N/A	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION

01 STATE 02 SITE NUMBER  
NYD 982531246

II PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION None reported.	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION None reported.	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION None reported.	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION None reported.	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION None reported.	02 DATE _____	03 AGENCY _____
01 <input checked="" type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION Date of contracting for removal of 72 55-gal. drums containing chemicals, drums containing oil & water were emptied (waste removed) and most were shipped out.	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE 5/18/87	03 AGENCY PRIVATE
01 <input checked="" type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION none reported	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
NYD 982531246

II. PAST RESPONSE ACTIVITIES (Continued)

01 <input type="checkbox"/> R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> S. CAPPING/COVERING 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> X. FIRE CONTROL 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Y. LEACHATE TREATMENT 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Z. AREA EVACUATED 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION None	02 DATE _____	03 AGENCY _____
01 <input checked="" type="checkbox"/> 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION Kramer Environmental collected and analyzed waste samples from site.	02 DATE <u>4/20/87</u>	03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection, DEC Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
NYD 982531246

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Site owner, 1929 Associates, was issued numerous  
fire code violations by the City of Poughkeepsie  
Fire Department.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

DEC Files, Site Visit.



## 6. RECOMMENDATION

### 6.1 Adequacy of Existing Data

The available data on soil and groundwater quality are considered incomplete to prepare a final HRS score for this site. However, existing data, showing the presence of PCB's, the site history, spills general poor housekeeping, and non-compliance with RCRA closure warrants an investigation to determine the extent of contamination and any possible migration off-site.

### 6.2 Recommendations

Since the Schatz Plant is classified as Class 2 site according to NYS DEC, it is recommended that a Remedial Investigation and Feasibility Study (RI/FS) be performed at the Schatz Plant.

This can be substantiated by very poor housekeeping inside and outside of the plant, the evidence of chemical and oil spillage on the floor, presence of PBC, heavy metals in the pits, potential fire and explosion threat to the surrounding occupied commercial buildings due to continued presence of chemical and oil in open pits and possible vandalism. The site history also revealed numerous fire code violations. Immediate clean-up of fourteen (14) pits of oil and chemicals inside the plant is also recommended.

APPENDIX



APPENDIX A

Appendix A  
Bibliography

- A-1 Site Photographs.
- A-2 D. Slingerland (NYS DEC) memo to P. Doshna, 5/7/86; NYS DOT Regional Oil/Hazardous Substances Spill Report, 5/5/86.
- A-3 B. Reiner (Dutchess County Environmental Management Council) Letter to S. Singh (NYS DEC), 6/25/86.
- A-4 D. Courselle (Robert-Mark Realty, Inc.) Letter to S. Singh (NYS DEC), 3/20/87.
- A-5 Poughkeepsie Journal Article, "Cleanup Continues at Schatz Waste Site", 12/5/86.
- A-6 R. Kennedy (Kramer Environmental) Letter to D. Courselle (Robert-Mark Realty, Inc.) 12/9/86.
- A-7 S. Singh (NYS DEC) Letters to J. Hanig (Hankin, Hanig & Stall) 3/19/87, 1/28/87; J. Hanig (Hankin, Hanig & Stall). Letter to R. Pergadia (NYS DEC), 1/9/87 with Attachment; Schatz Plant Meeting Summary, NYS DEC, 12/17/86.
- A-8 D. Courselle (Robert-Mark Realty, Inc.) Letter to R. Pergadia (NYS DEC) 2/19/87 with Attachment.
- A-9 R. Kennedy (Kramer Environmental) Letter to D. Courselle (Robert-Mark Realty, Inc.) 5/14/87; Sampling Results.
- A-10 D. Courselle (Robert-Mark Realty, Inc.) Letter to A. Vasques (NYS DEC) 5/21/87.
- A-11 V. Sammarco Letter to NYS Department of State, Uniform Fire Prevention and Building Code Division, 3/31/87.
- A-12 J. Hankin (Hankin, Hanig & Stall) Letter to V. Sammarco, 4/9/87.
- A-13 Simmons, E., Ground-Water Resources of Dutchess County, New York, USGS Bulletin GW-43, 1961.
- A-14 R. Kennedy (Kramer Environmental) Letter to A. Kazemi (Gibbs & Hill, Inc.) and Waste Removal Manifests 6/30/88.

APPENDIX A

A-1-2-2

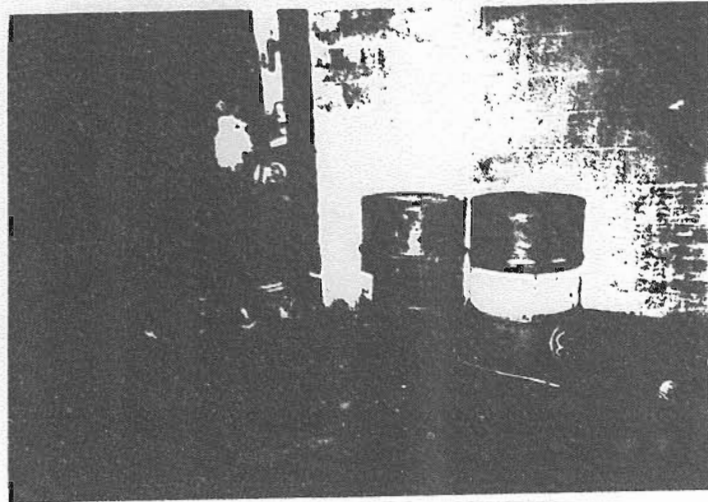


PHOTO # 3

Unlabeled 55-gallon Drums

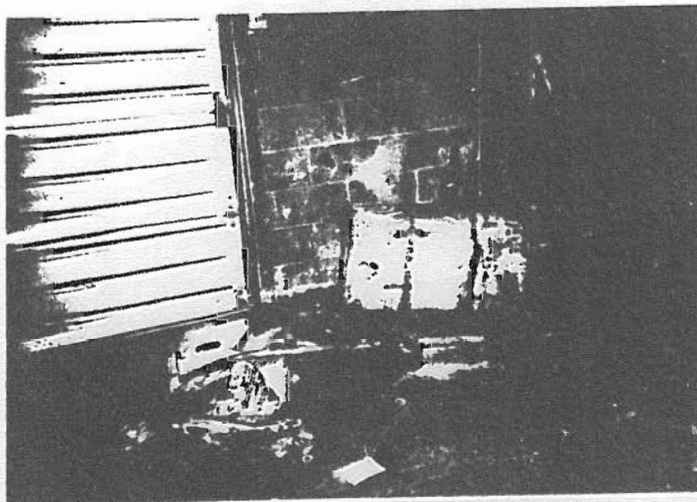


PHOTO # 4

Empty Drum and Garbage

P-1-2-2

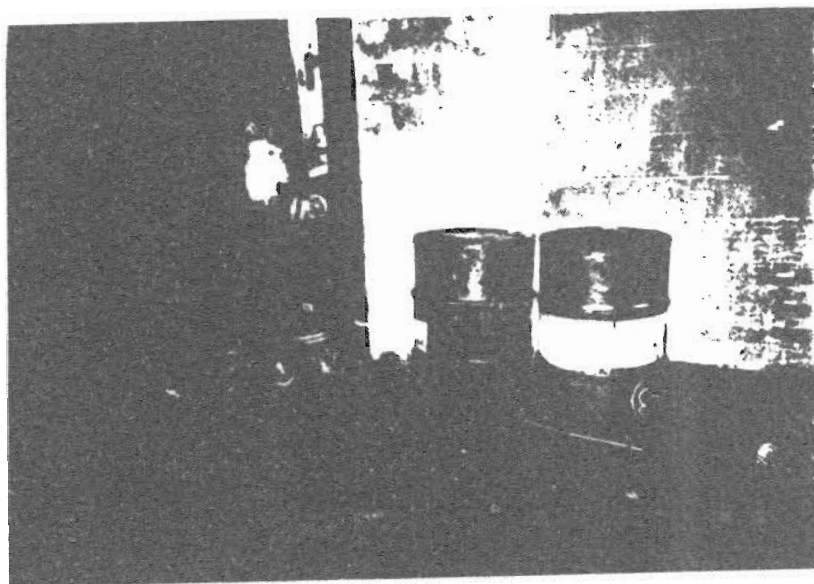


PHOTO # 3

Unlabeled 55-gallon Drums

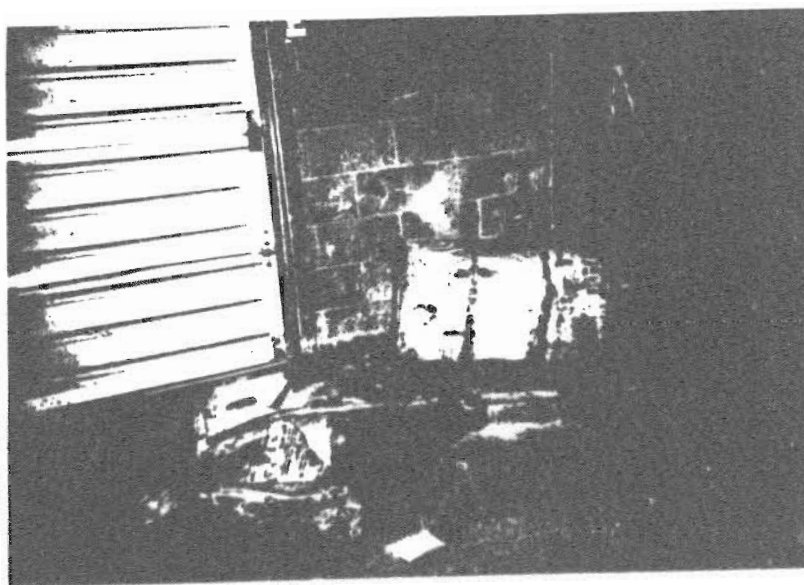


PHOTO # 4

Empty Drum and Garbage

A-1-3-3



PHOTO # 5

View of Empty Drums with Abandoned Vehicle

35 (12/75)



REF. A-2-1-2

New York State Department of Environmental Conservation

MEMORANDUM

TO: P. DOSHWA  
FROM: D. SLINGERLAND  
SUBJECT: SCHATZ BEARING, Poughkeepsie

DATE: 5/7/86

FOUND ON PREMISES: \* 64+ DRUMS (58 IN ONE AREA BETWEEN BLDGS  
MANY FILLED, SOME LABELED - BP ENERGOL QA

- METAL WORKING FLUID

- MAINTENANCE CLEANER

- PUTMEZ CHEMICAL CORP. NE-87

- KENDALL SUPERB MOTOR OIL

\* METAL SHAVINGS/OIL IN 21 CY. BINS (12) OUTSIDE BLDG.

\* 100Z+ DISCARDED ELECTRICAL TRANSFORMERS INSIDE AND OUTSIDE  
OF BLDGS.

\* 20-25 DRUMS INSIDE BUILDING - RUSTY - CONTENTS UNKNOWN

\* 3 DRUMS UNKNOWN CRYSTALLINE SOLID POWDER.

\* INSIDE BUILDINGS ARE PITS OF OIL, GREASE, CONTAMINATED  
WATER - PITS CONTAIN 100-200 GAL LIQUID.

\* CONTAMINATED SOIL ON OUTSIDE OF BUILDING, SEEN IN WATER  
RUNNING OFF.

ENTIRE AREA IS POORLY KEPT. NO APPARENT CLEAN UP  
WAS DONE WHEN BUILDING WAS ABANDONED

A-2-2-2

SPILL NO. 66NEW YORK STATE  
DEPARTMENT OF TRANSPORTATIONREGION 3

## REGIONAL OIL/HAZARDOUS SUBSTANCES SPILL REPORT

DATE ONGOING Time of Spill 5/5/86 AM 3:30 PMCALLER'S NAME D. SINGERLAND Notifier's Name SHAMINDER SINGHCALLER'S AGENCY NYSDOT Notifier's Agency NYSDOTCALLER'S PHONE 914-255-5453 Notifier's Phone 914-255-5453MATERIAL SPILLED OIL, GREASE MACHINE OIL ETC ALSO TRANSFORMERS + ASST CAMOUNT SPILLED UNKLOCATION (Town & County) POUGHKEEPSIE, DUTCHESS(Street, Road, or Route) 70 FAIRVIEW AVEWATERSBODY AFFECTED NONE Or ☒ Groundwater POSSIBLESOURCE OF SPILL 50-60 DRUMS Name of Spiller SCHATZ - FCB BEARCAUSE OF SPILL LEAKAGE - SCRAP HOUSEKEEPING - COMPANY HASACTION TAKEN BEEN ABANDONED FOR 25 YRS.PER TO INVESTIGATEName of Person Contacted  
TIM ALESNAK

## TO BE COMPLETED BY DOT REPRESENTATIVE AT SCENE OF SPILL

Date <u>5/7/86</u>	Time <u>10:30</u>	Spiller <u>SCHATZ</u>	Investigated by <u>[Signature]</u>
Location of Spill <u>POUGHKEEPSIE</u>	Material Spilled <u>ASST OILS</u>	Amount Spilled <u>UNK</u>	Resources Affected <u>GROUND (POSS)</u>
<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Follow-up Report			

 Cleanup by ☐ SPILLER  
☐ STATE GOVERNMENT PERSONNEL  
☐ LOCAL GOVERNMENT PERSONNEL

☐ Contractor hired by spiller  
☐ Contractor hired by Coast Guard or EPA  
☐ Contractor hired by DOT

NAME OF CONTRACTOR \_\_\_\_\_

ESTIMATED STARTING DATE OF CLEANUP \_\_\_\_\_

ESTIMATED COMPLETION DATE OF CLEANUP \_\_\_\_\_

ESTIMATED COST OF CLEANUP \_\_\_\_\_

REMARKS: SITE IS ABANDONED METAL MILLING FACILITY - ON SITE ARE  
 BINS (12-15) METAL SHRAPNELS; 64 DRUMS OF ASST OILS, GREASE  
 OILS ETC, AND TRANSFORMERS, ENTIRE AREA IS OIL STAINED AND ONE  
 OF PETROLEUM IS PRESENT THROUGHOUT. REASON TO ENTER NOT WITH  
 WORKER ETC

[Signature]  
 Signature of Person Preparing Report



REF. A-3-1-1

SCHATZ PLANT RECEIVED

714073

JUL 2 1986



## Dutchess County Environmental Management Council

P.O. Box 259  
Farm & Home Center, Millbrook, N.Y. 12545  
(914) 677-3488

NYSDEC  
New Paltz

June 25, 1986

Shaminder Singh  
NYS Dept. of Environmental Conservation  
Division of Solid & Hazardous Wastes  
21 South Putt Corners Road  
New Paltz, NY 12561

Dear Shaminder:

The Closed Landfill Committee of the Dutchess County Environmental Management Council believes that the former plant site of the Schatz Federal Bearing Co., Fairview Ave., Poughkeepsie, warrants inquiry as a potential hazardous waste site. A site tour (May 14, 1986) revealed at least four areas in question.

1. The wooden flooring in the former plant still retains a saturated oily surface. A number of renovated office rentals now occupy the site, although a portion still remains vacant.
2. Barrels of unknown contents and quantity and carts of metal tailings are found stored in a rear causeway. The barrels are not enclosed and sit in puddles of water or other substance. Similar tailings are found produced by a current manufacturing operation on site.
3. The Foundry Building contains original pits with thick ash and burner bricks left behind. At the right immediately inside the rear door, a number of electric transformers are piled. Bryan Doyle, an individual who helped develop the renovated office space on the site, referenced finding PCB labels scattered on the floor in this area as well as batteries stacked in the rear corner of the building.
4. Tanks and old machinery are found in various locations around the remainder of the site.

Additionally, two persons have expressed concern about this site by calling the EMC office. Bryan Doyle is one and the other caller wishes to remain anonymous. The concern expressed is for those people who work in the renovated office space. Do the remnants of the manufacturing process warrant an investigation? These interests cannot be severed from the sister site - the Schatz dumpsite, Van Wagner Road, Poughkeepsie, DEC code #314003, which is currently under remedial investigation.

An early reply on your course of action would be appreciated. If you have any further questions, please do not hesitate to call Alison Silkworth (677-3488-EMC office). Slides of the particular areas discussed are available at the EMC.

Bill Reiner, Chairman  
Closed Landfill Committee

cc: Charles Goddard, DEC

Scott Daniels, DOH

Cooperative Extension in New York State provides equal program and employment opportunities

REF. A-4-1-2

314cc

**Robert-Mark Realty, Inc.**  
**COMMERCIAL DIVISION**

914-221-3700

RECEIVED

MAR 24 1987

NYSDC  
New Paltz

March 20, 1987

New York State Department of Environmental Conservation  
21 South Putt Corners Road  
New Paltz, NY 12561

Attn: Shaminder Singh  
Assistant Engineer, Region 3

RE: Former Schatz Property  
Fairview Avenue, Poughkeepsie

Dear Mr. Singh:

On February 19, 1987 I sent a letter to Ramanand Pergadia, P.E., Senior Sanitary Engineer (copy attached) which informed D.E.C. of the fact that Kramer Environmental, our consultant handling the above matter inspected the site on January 29, 1987 and determined that due to the freezing weather, the pits could not be sampled as per the approved program, nor could the remaining contents of the 30+/- drums on the site be transferred to proper storage containers in their frozen state.

Here is a summary of our efforts on this matter:

1. Various chemicals in former Schatz laboratory - all items completely removed, last shipment out March 3, 1987.
2. 60+/- 55 gallon drums of water/oil mixtures - 1,123 gallons of material pumped out and transported to approved facility December 3, 1986. Regarding the remaining empty drums, Storonske N. Cooperage Co., Inc. of Schodack Center, NY has been contacted and will pick these up at such time as all barrels on the site are empty and ready for removal.
3. 30+/- drums of assorted materials not compatible with category (2) above - Kramer's letter of February 12, 1987 addresses the problem of recontainerizing the material while in a frozen state. It is anticipated that mid-to-late April, this item will be done.

Rt. 52, P.O. Box 308, Hopewell Junction, N.Y. 12533

ALL INFORMATION IS SUBJECT TO ERRORS, OMISSIONS, PRIOR SALE OR WITHDRAWAL, WITHOUT NOTICE

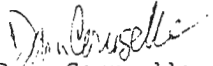
March 20, 1987  
Page 2

4. Sampling of liquids and sludge in pits - various locations within buildings - also addressed in Kramer's letter, prevented from being done while material is in frozen state.

I would like to suggest that the owners of the subject property have made progress with the situation at the former Schatz plant, and they have real plans to proceed with further clean up activities, as soon as the weather permits. In my opinion, there has been a true spirit of cooperation between the owners, D.E.C., town officials and other parties involved. I would like to see this continued.

Sincerely,

ROBERT-MARK REALTY, INC.

  
Donn Courselle  
Assistant to President  
Commercial Division

DC:tlh

Attachment

## Cleanup continues at Schatz waste site

A cleanup of toxic waste continues at the sprawling Schatz Federal Bearings Co. plant in the Town of Poughkeepsie, six years after the maker of ball bearings went out of business.

There are about 100 metal drums in a vacant area of the plant, and Wednesday a tanker truck pumped 1,123 gallons of cutting oil and other fluids from 72 drums on the site, according to Don Courselle of Robert-Mark Realty, which has been hired to manage the cleanup.

Town officials have ordered that vacant areas be sealed. Courselle said the emptied barrels should be gone by Dec. 12, and the building

should be closed with plywood boards by then.

About 26 remaining barrels contain detergents, alkaloids, fungicides and chemical solvents, according to town Fire Inspector Don Murphy. Courselle said a waste-management firm from New Jersey must determine where to take the chemicals before they can be removed.

Murphy cited the owners, a partnership called 1929 Associates, for several fire code violations June 17. The town also cited it for non-working sprinklers in 15 buildings, three of which are occupied. Lawyer Gerard Hankin, one of the owners, has said they will be repaired.

REF. A-6-1-3

Kramer  
Environmental  
DIVISION OF  
KRAMER INDUSTRIES  
35 ALLWOOD RD  
CLIFTON, NJ 07012

NEW JERSEY: 201-471-9500  
609 AREA CODE ONLY - 800-522-4135  
N.Y., P.A., CT., MD., DE., - 800-631-8315

Dec. 9. 1986

Mr. Donn Courselle  
Robert-Mark  
P.O. Box 308, Rt. 52  
Hopewell Junction, NY 12533

Dear Mr. Courselle:

Kramer Environmental is pleased to offer the following proposal regarding the disposal of approximately 30 drums of corrosives, detergents, grease and oil sludges, gels, and one drum of a fungicide at the 1929 Associates facility in Poughkeepsie, New York.

This is a not-to-exceed quote since we believe many of the similar materials can be composited to reduce the total number of drums for disposal.

We have also quoted costs for using all new drums but will use as many of the waste drums on site as possible. We expect the actual costs to be significantly below our quote.

This quotation is based on the inventory of materials and field screening evaluations performed by our Technical Services Group.

Our Technical Services Group will provide necessary manpower and material as indicated in Proposal Number RK120902.

All work will be done in a professional manner and resultant waste will be containerized and transported according to Department of Transportation rules and regulations. Waste will be transported to approved waste facilities for disposal according to EPA and disposal regulations. KE can not accept unknown or unidentified chemicals.

Once material is containerized it will be staged on generators property prior to final approval and scheduling. Site security is the responsibility of generator. All scheduling is contingent upon necessary approvals from disposal site(s). Waste designated for specific disposal site will be picked up separately from other disposal site specific waste.

ENVIRONMENTAL  
SPECIALISTS

Hourly rates are portal-to-portal. KE will supply only those materials as indicated in proposal. Miscellaneous material handling equipment will be on case-by-case basis. Unless otherwise indicated, customer is responsible for any and all containers as a result of KE field work.

ALL QUOTATIONS ARE BASED ON UNIT PRICES AND/OR TIME AND MATERIAL RATES ONLY. ESTIMATES LISTED ON ATTACHED FORM HERE, BUT ARE GIVEN AS AN INDICATOR ONLY. BILLING IS BASED ON ACTUAL HOURS WORKED AND NUMBER OF DRUMS FOR DISPOSAL. MINIMUM BILLING: 4 HOURS PER PERSON PER DAY. MANPOWER RATES OF TIME AND ONE-HALF WILL APPLY AFTER 8 HOURS/DAY. NEW JERSEY'S SALES TAX WILL BE CHARGED ON TAXABLE ITEMS.

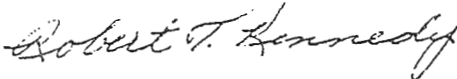
This proposal is valid for thirty (30) days and subject to change without notice thereafter. KE will require 1-2 weeks advance notice for scheduling. Purchase order number must be assigned to project and given to KE before scheduling. Credit terms for this order will be set at time of scheduling and are subject to standard credit approval.

If you have any technical questions regarding this proposal, do not hesitate to call Mr. Robert Kennedy at (201) 471-9500.

Thank you for your interest in Kramer Environmental.

Very truly yours,

KRAMER ENVIRONMENTAL



Robert Kennedy, Ph.D.  
Manager of Technical Services

RK/lf

00/01/30/64/77/88/89/100

Kramer Environmental  
Technical Services Proposal  
For  
1929 Associates

JOB DESCRIPTION: disposal of various 55 gal. drums of hazardous materials  
PROPOSAL NO. RK120902 DATE: 12/09/86

CHARGE CATEGORY	NO.	UNIT	ITEM	UNIT PRICE	EXTENDED PRICE
1. Labor:					
(Portal-to-Portal)					
	20	hour	field chemist	50	\$1000
	20	hour	field chemist	35	700
2. Equipment:					
	2	day	field vehicle	75	150
3. Miscellaneous:					
	20	drum	55 gal., DOT approved	30	600
	4	person	personnel protection gear	25	100
4. Disposal:					
	1	55 gal. drum	fungicide	600	600
	30	55 gal. drum	acids, bases, detergents, grease & oil sludge, gels	240	7200
5. Transportation:					
	1	load	55 gal. drums of hazardous waste	300	300

Prepared by: Robert Kennedy

Total Estimate: \$10,650

REF. A-7-1-6

Mr. Williams / Kelly 3/16

**New York State Department of Environmental Conservation**

21 South Platt Corners Road  
New Paltz, New York 12561-1696  
(914) 255-5453



Henry G. Williams  
Commissioner

March 19, 1987

Mr. Joel D. Hanig  
Hankin, Hanig & Stall  
Attorneys at Law  
319 Main Mall Rear  
P. O. Box 911  
Poughkeepsie, NY 12602-0911

Re: Property of 1929 Associates  
Former Schatz Plant

Dear Mr. Hanig:

This is a follow-up to my letter of January 28, 1987, whereby I requested you to submit a work plan for Phase II type investigations for the above site by March 15, 1987.

Please inform me about the progress on the work plan and be advised that in the absence of a work plan and signed consent agreement, your site will be put onto the New York State Inactive Hazardous Waste Disposal Sites Registry, effective April 15, 1987.

Should you have questions on this, please do not hesitate to contact me.

Sincerely,

Shaminder Singh  
Assistant Sanitary Engineer  
Region 3

SS:ls

cc: A. Klauss  
R. Gardineer/R. Pergadia ✓  
G. Peck  
D. Murphy



A-7-2-6

0.90107

New York State Department of Environmental Conservation

21 South Platt Corners Road  
New Paltz, NY 12561-1696  
(914) 255-5453



Henry G. Williams  
Commissioner

January 28, 1987

Joel D. Hanig  
Hankin, Hanig & Stall  
Attorneys at Law  
319 Main Mall Rear  
P.O. Box 911  
Poughkeepsie, N.Y. 12602-0911

Re: Property of 1929 Associates  
former Schatz Property

Dear Mr. Hanig:

I have following comments to your letter of January 17, 1987 addressed to Mr. Ram Pergadia:

Sampling plan for the 11 pits by Kramer Environmental is alright, but the overall proposal for site investigation is not acceptable. As you will recall in our meeting with you and Mr. Dan Corselle on Dec. 17, 1986 at New Paltz office, I gave you a generic Consent Agreement and a copy of generic work plan for phase II type investigations.

Please submit a work plan in accordance to the generic work plan/consent order (duplicate copy enclosed) to this office by March 15, 1987. In the mean time you may go ahead with the sampling of pits. Please bear in mind that DEC will not approve any work done without a Consent Agreement.

Contact me if you need any further information or clarification for the work plan.

Sincerely,

Shaminder Singh  
Assistant Engineer  
Region 3

SS/jo  
Enc.

cc: Al Klauss  
Rich Gardineer/Ram Pergadia  
Gary Peck  
Bill Busky

A-7-3-6

5140

*Hankin, Hanig & Stall*

*Attorneys at Law*

JERARD S. HANKIN  
JOEL D. HANIG  
TODD S. STALL\*

ROBERT G. SHORT

\*MEMBER N.Y. & CT. BARS

LEGAL ASSISTANTS  
LISA PECCHIA  
RUTH FARRELL  
KAREN VERONESI  
SANDRA DESMEDT  
CHRISTINE CUTLER

RECEIVED

JAN 12 1987

NYS DEC  
REGION 8

ADDRESS REPLY TO:

X 319 MAIN MALL REAR  
P.O. BOX 911  
POUGHKEEPSIE, NEW YORK 12602-0911  
(914) 471-7177

□ EAST FISHKILL OFFICE:  
ROUTE 52  
P.O. BOX 127  
HOPEWELL JUNCTION, NEW YORK 12533  
(914) 221-2424

□ DANBURY, CONNECTICUT OFFICE:  
30 MAIN STREET  
SUITE 202  
DANBURY, CONNECTICUT 06810-8046  
(203) 782-3203

January 9, 1987

New York State Department of Environmental Conservation  
21 South Putt Corners Road  
New Paltz, N.Y. 12561

Att: Ramanand Pergadia, P.E.  
Senior Sanitary Engineer

Re: Property of 1929 Associates- former Shatz property.

Dear Mr. Pergadia:

In accordance with the meeting that we had at your office on December 17, 1986 this letter is to verify that the property owner accepts responsibility to determine whether or not any hazardous waste exists that the premises of 1929 Associates in the areas detailed by you at the time of our meeting.

I enclose a letter dated December 18, 1986 from Kramer Environmental detailing their suggested sample plan for the property. I would ask that you review this letter to determine whether the extent of the program suggested by them is suitable to you. If it is not, we will accept from you any suggestions as to a revision of their sampling plan which would be satisfactory to you.

Obviously, my client is ready to accept the proposal of Kramer Environmental and make the necessary financial arrangements for paying for their program.

I enclose, for your information the earlier letter of Kramer Environmental dated December 9, 1986 regarding the removal of the drums of material located at the premises. I understand that this removal is almost complete.

If you feel that a further meeting to discuss what is necessary will be required, please contact me and we will schedule same.

Sincerely,

HANKIN, HANIG & STALL

JOEL D. HANIG

JDH:jmf  
Encs.

A-7-4-6

  
**Kramer  
Environmental**  
DIVISION OF  
KRAMER INDUSTRIES  
935 ALLWOOD RD  
CLIFTON, NJ 07012

NEW JERSEY: 201-471-4711  
609 AREA CODE ONLY - 800-521-4711  
N.Y., P.A., CT., MD., DE. - 800-631-4711

December 18, 1986

Mr. Don Courselle  
1929 Associates  
c/o Robert Mark Agency  
Rt. 52, PO Box 308  
Hopewell Junction, N.Y. 12533

Subject: Sampling of your 11 (approximate) pits

Dear Don:

Per our previous telephone conversations, including the one today, I will outline a suggested sampling plan.

It is Kramer Environmental's opinion that eleven total samples should be taken with all eleven going through our Option 5 sampling program which includes:

Physical Properties (physical State, Layering, Color, Odor,  
Clarity)  
Radiation Screening  
pH  
Water Solubility/Reactivity  
Hexane Solubility  
Flammability  
Specific Gravity  
Cyanide  
Sulfide  
Oxidizing/Reducing Potential

In addition, approximately six pits containing oil should be checked for PCB's.

Eleven sludge samples should be taken and subjected to our Option 5 program as outlined above, as well as six should be analyzed for PCB 's.

We further suggest that a 601/602 solvent scan be run to identify any potential aromatics and/or ketones being present. The cost for performing our suggested plan is \$9500.

ENVIRONMENTAL  
SPECIALISTS

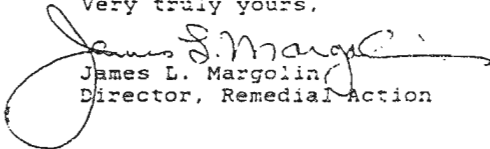
In accordance with our telephone conversation today, I indicated that I have assumed two days to accomplish this task. If this can be done in a lesser time, such as one day, we will eliminate the labor portions associated with the additional day. By doing it in one day, it would also eliminate the additional cost associated with per diem for our two men.

If you or the N.Y. DEC require additional testing once we have gathered the samples, we will be able to perform this additional work by retaining the samples for a period of thirty days.

This quotation will be held firm for thirty days from the above date and we will assume that a Purchase Order will be sent to us as well as our Credit Department may require a portion of this amount in advance. As you well know, Don, most of our business has been performed with payment in full prior to commencement. This may become the mechanism that will be required on this task.

If I can be of assistance to you, please do not hesitate to contact me and if you have any questions about the aforementioned information, please call.

Very truly yours,

  
James L. Margolin  
Director, Remedial Action

JLM:ams

A-7-6-6

SCHATZ PLANT MEETING

PLACE: DEC, New Paltz

DATE: December 17, 1986 1:30 p.m.

ATTENDEES: Shaminder Singh (914) 255-5453  
Ram Pergadia (914) 255-5453  
Bill Buskey (914) 255-5453  
Dan Corselle (914) 221-3700  
Joel Hanig (914) 221-2424

PURPOSE: To discuss the Schatz Plant Site.

SUMMARY: I informed Dan Corselle that DEC is putting Schatz Plant property on the State's In-Place Hazardous Waste Sites Registry and he requested for this meeting.

Bill Buskey explained what they (1929 Associates - the property owner) are doing at the site ie. removal of hazardous waste drums, pumping oil/water out of 60+ drums and identifying the left over 30+ drums. Ram Pergadia explained to them what is required under ECL Article 27, Title 13.

It is decided in the meeting that we will hold onto the site for the time being, provided 1929 Associates show in good faith to do sub-surface investigations (equivalent Phase II). Pleasant Valley Finishing Company (contact Mr. Turitsky) is another owner of the adjacent site. 1929 will also contact them. A generic Phase II Consent Order and generic Phase II Work Plan was handed over to them.

1929 Associates will write to DEC about their intentions of when and how to do equivalent Phase II Investigations. Until then we will not put this site on the In-Place Registry.

cc: A. Klauss  
R. Gardineer/R. Pergadia  
B. Buskey

*S. Singh*

REF. A-8-1-2

**Robert-Mark Realty, Inc.**  
**COMMERCIAL DIVISION**

914-221-3700

February 19, 1987

New York State Department of Environmental Conservation  
21 South Putt Corners Road  
New Paltz, New York 12561

Attn: Ramanand Pergadia, P.E.  
Senior Sanitary Engineer

Re: Former Schatz Property  
Fairview Avenue, Town of Poughkeepsie

Dear Mr. Perendia:

Attached please find a copy of a letter received by me from the Manager of Technical Services of Kramer Environmental, Mr. Robert T. Kennedy, Ph. D.

In such letter he advises that due to the frozen condition of the material in the drums which are to be handled, we must wait until the end of the cold weather to be able to do the work properly.

Also, Kramer's sampling of the pits can not be done while the material is frozen.

I will keep you advised of our progress on those matters.

Sincerely,



Donn Courselle  
Assistant to President  
Commercial Division

Attachment

A-8-2-2

  
Kramer  
Environmental  
DIVISION OF  
KRAMER INDUSTRIES  
935 ALLWOOD RD  
CLIFTON, NJ 07012

NEW JERSEY 201-47  
609 AREA CODE ONLY • BIRMINGHAM  
N.Y., P.A., CT., MD., DE., • BOSTON

February 12, 1987

Mr. Donn Courselle  
Robert-Mark  
P.O. Box 308, Rt. 52  
Hopewell Junction, NY 12533

Dear Mr. Courselle:

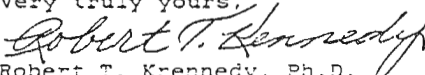
Based on a site inspection conducted on January 29, 1987 by Robert Mourterot and myself, I believe it is best to wait approximately four to six weeks before completing the final phase of the drum removal at 1929 Associates in Poughkeepsie, New York.

The various chemical wastes were all frozen and could not be transferred from the damaged and rusted drums to new drums for proper shipment to a treatment facility.

We will contact you during the week of March 16 to discuss when the project can be resumed.

If you, or anyone connected with this project, have any questions concerning the delay in completion, please feel free to contact me.

Very truly yours,

  
Robert T. Krennedy, Ph.D.  
Manager of Technical Services

cc: R. Mourterot

ENVIRONMENTAL  
SPECIALISTS

REF. A-9-1-38



RECEIVED  
MAY 27 1987

NYC DES  
REGION 3

Kramer  
Environmental  
DIVISION OF  
KRAMER INDUSTRIES  
930 ALLWOOD RD  
CLIFTON, NJ 07012

NEW JERSEY: 201-471-4711  
609 AREA CODE ONLY - 800-511-1111  
N.Y., P.A., CT., MD., DE. - 800-631-1111

May 14, 1987

Mr. Donn Courselle  
Robert-Mark  
P.O. Box 308, Rt. 52  
Hopewell Junction, NY 12533

Dear Donn:

Enclosed you will please find the laboratory reports on the pit and transformer samples taken on April 20, 1987 by our field team at the 1929 Associates facility in Poughkeepsie, New York.

As per my quote of April 13, 1987, two oil, two water and two sludge composites were made of the materials in the 14 on-site pits in order to reduce analytical laboratory costs. Included in our quote was the provision that should any composite test positive for PCB's, all individual samples in the composite would have to be tested.

As indicated by the reports, both pit composites (A and B) came up positive with levels exceeding 50 ppm of PCB's, the allowable non-hazardous landfill limit.

All pits must now be sampled and tested individually to determine if they are contaminated.

The attached proposal is for the complete testing of all individual pits.

After this information has been obtained, we will issue a quote for the total site clean-up.

Sincerely,

*Robert T. Kennedy*  
Robert T. Kennedy  
Director - Field Operations

ENVIRONMENTAL  
SPECIALISTS



A-9-2-38

Kramer Environmental  
Technical Services Proposal  
For

1929 Associates

JOB DESCRIPTION: sampling of pits for pcb contamination  
PROPOSAL NO. rk05148701

DATE: 5-14-87

CHARGE CATEGORY	NO.	UNIT	ITEM	UNIT PRICE	EXTENDED PRICE
1. Labor:					
(Portal-to-Portal)	10	hour	Supervisor	55	550
	10	hour	Technician	40	400
2. Materials:					
		ea. (DOT)	labels	.75	
		ea. (EPA)	labels-pre-printed	1	
3. Equipment:					
	2	person	personnel protection gear (LEVEL C)	50	100
	1	days	field vehicle	90	90
4. Laboratory:	14	sample	for PCBS	150	2100
5. Disposal:					
6. Transportation:					

Prepared by: Bob Kennedy

Total Estimate: \$3240

A-9-3-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15326

TRANSFORMER

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 476 Transformer

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012.

These samples were analyzed by Gas Chromatography (EPA method 608).  
This system is equipped with an electron capture detector.

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

Organic Analyses ug/L (ppb)

PCB's 122000. = 122.0 PPM .05

This sample was found to contain a concentration of 122000. ug/L of  
mixed aroclors 1254 & 1260.

nd: none detected

  
LABORATORY DIRECTOR

CONTAINS PCBs  
122 ppm is above the limit

A-9-4-38

EPL #476

1:102 in Hexane

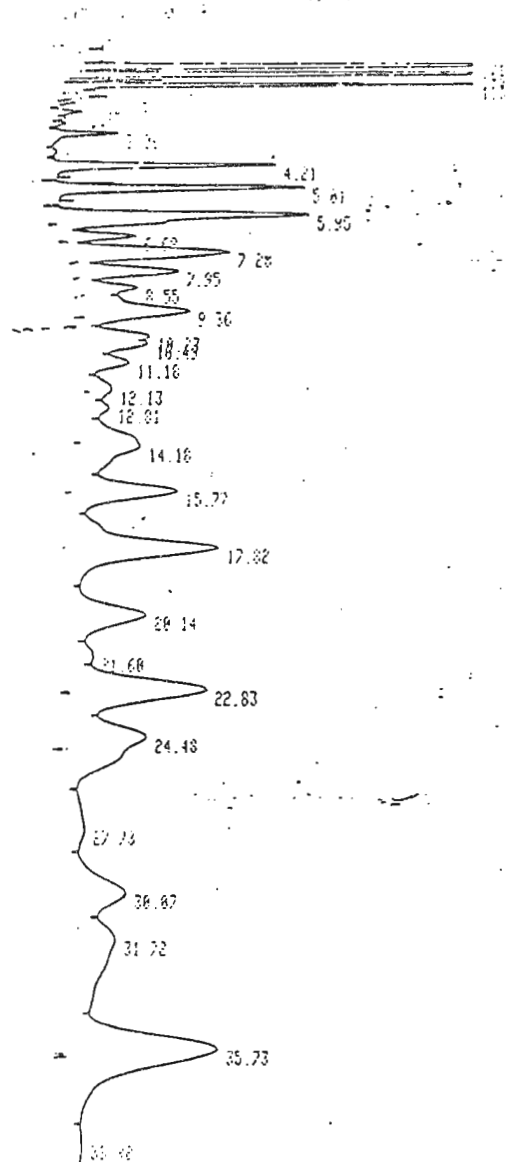
SAMPLE # 1

PCB<sub>2</sub> in oil

AREA	AREA	TYPE	AR/HT	AREA
FT				
0.35	223488	EP	0.455	0.113
0.65	1.4832E+07	SF8	0.067	7.513
0.95	4243600	EV	0.057	2.150
1.00	1435100	OV	0.040	0.727
1.17	401300	VP	0.050	0.203
1.33	4345000	FE	0.075	2.201
1.75	281620	BP	0.036	0.143
1.96	96790	PP	0.033	0.012
2.27	294800	FV	0.144	0.149
2.48	119770	VV	0.140	0.061
2.69	119040	VV	0.133	0.060
3.06	801290	VF	0.162	0.406
3.70	49494	FF	0.153	0.025
4.21	2953400	FE	0.176	1.496
5.01	3759700	FB	0.201	1.905
5.95	6415000	EV	0.338	3.250
6.28	1763700	VV	0.296	0.893
7.28	5995000	VV	0.460	3.037
7.95	3997100	VV	0.432	2.025
8.55	2579100	VV	0.420	1.307
9.36	7009100	VV	0.634	3.551
10.23	2730000	VV	0.386	1.383
10.49	2848400	VV	0.411	1.443
11.18	3336000	VV	0.539	1.690
12.13	3469000	VV	0.806	1.757
12.81	2563000	VV	0.620	1.298
14.18	9465700	VV	1.469	4.795
15.77	7546100	VV	0.817	3.823
17.82	1.3384E+07	VV	1.075	6.739
20.14	7999200	VV	1.142	4.052
21.60	2391200	VV	0.784	1.211
22.83	1.2392E+07	VV	1.071	6.278
24.43	1.2160E+07	VV	1.710	6.160
27.73	4927900	VV	1.957	2.496
30.07	9266600	VV	1.628	4.694
31.72	1.3752E+07	VV	2.790	6.966
35.73	2.3378E+07	VV	1.852	11.842
39.90	4165000	I VH	1.642	2.110

TOTAL AREA= 1.9741E+08  
MUL FACTOR= 1.0000E+00

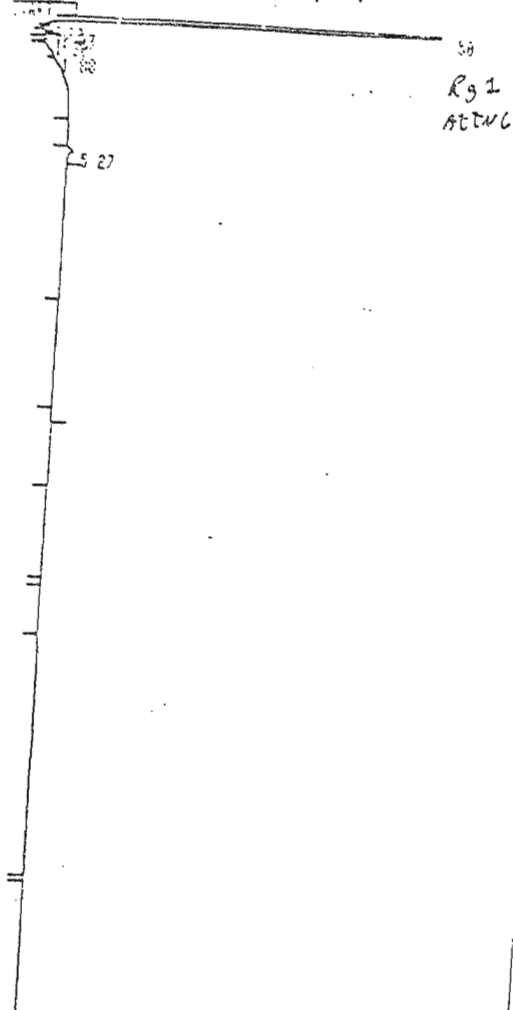
Ar. #1254+1260



A-9-5-38

STOP TIME 4 S R

SOLVENT BLANK FOR  
PCB/PST



RUN # 116  
WORKFILE ID: C  
WORKFILE NAME:  
SAMPLE # 1

AREA	FT	AREA	TYPE	AREA/HT	AREA
0.50	7743900	888	0.057	95.473	
0.82	23765	BP	0.056	0.292	
1.03	48415	FB	0.063	0.597	
1.38	63128	BP	0.136	0.773	
1.88	154748	FB	1.287	1.967	
5.27	79997	88	0.289	0.986	

TOTAL AREA= 8114000  
MUL FACTOR= 1.0000E+00

A-9-6-38

NAME: ALL NAME  
SAMPLE # 1

AREA#	RT	AREA	TYPE	HR/HT	AREA#
	0.50	3.1005E+07	TSPB	0.062	27.591
	0.82	18252	BP	0.078	0.016
	1.63	144540	FV	0.102	0.129
	1.29	161700	VP	0.171	0.144
	1.75	685040	PV	0.418	0.538
	2.86	1917300	VV	0.390	1.785
	3.23	856960	VV	0.398	0.763
	3.66	1089600	VV	0.469	0.970
	4.62	668700	VV	0.300	0.588
	4.30	434240	VV	0.200	0.387
	4.55	1375400	VV	0.580	1.224
	5.26	1577500	VV	0.559	1.484
	7.10	3163500	VV	0.834	2.815
	7.82	2606600	VV	0.687	2.320
	8.53	1144700	VV	0.568	1.019
	9.89	2618300	VV	1.176	2.331
	10.92	4642700	VV	1.092	4.132
	12.13	3828500	VV	0.643	3.407
	13.72	6790100	VV	0.924	6.043
	15.51	4691900	VV	0.935	4.175
	17.57	7142800	VV	0.992	6.357
	18.85	6308600	VV	1.303	5.614
	21.37	2483900	VV	1.515	2.210
	23.13	4288000	VV	1.207	3.816
	24.35	3989700	VV	1.631	3.551
	27.51	9970500	VV	1.310	3.072
	32.07	1851100	VV	1.965	0.935
	35.77	7786400	VV	2.115	6.920
	43.12	193060	BP	2.040	0.172
	43.39	724070	I PP	1.861	0.644

TOTAL AREA= 1.1237E+08  
MUL FACTOR= 1.0000E+00

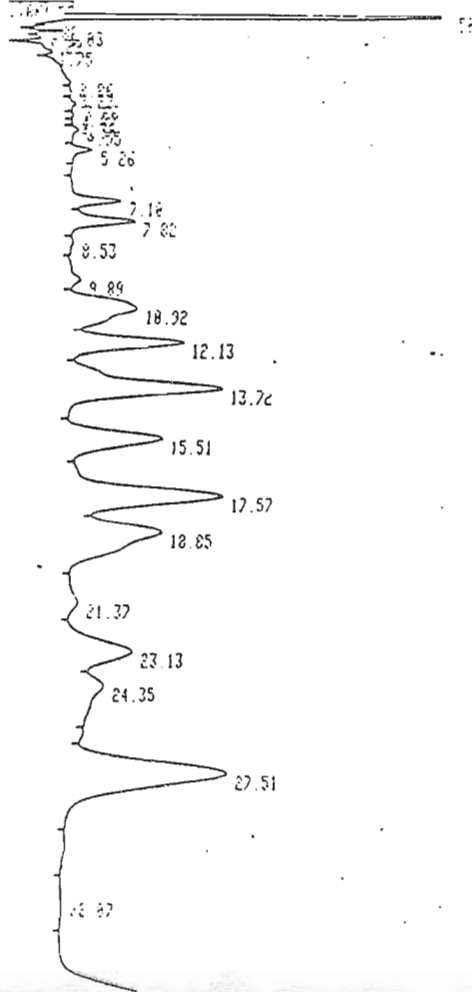
STOP

LIST: LIST  
PEAK CAPACITY: 996

ZERO = 10.0000  
ATT 21 = 5  
CHT SP = 0.5  
PK WD = 0.04  
THRESH = 2  
AR REJ = 1000

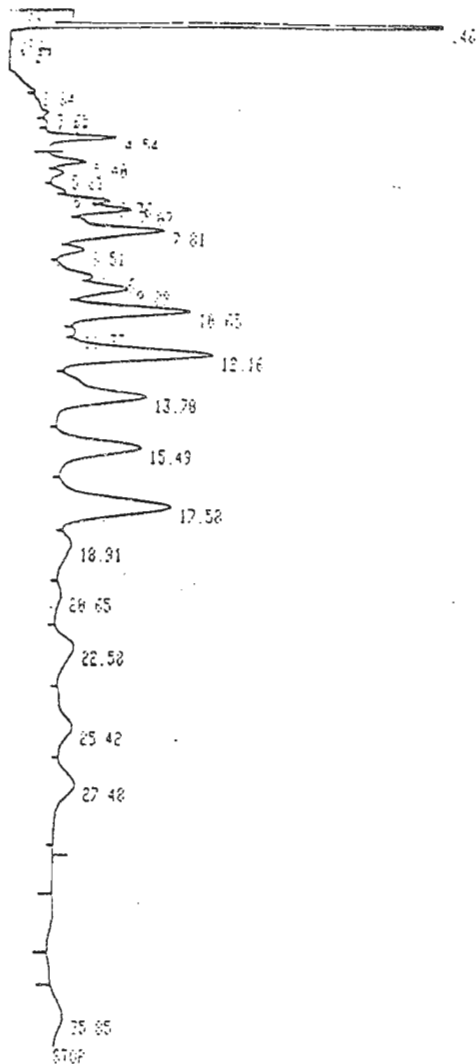
LIST: ZERO = 10.0000

500PPS 1260 R<sub>3</sub>  
ATTN 5  
600 Hz



QTY =  
 CH =  
 PL =  
 INCH =  
 AR = 1000

STOPPED 1254 STD  
 = TO  
 1000L/100ML  
 STOPPED



WORKFILE 101 C  
 WORKFILE NAME:

AREA	RT	AREA TYPE	AR/HT	AREA
0.46	4.3356E+07	1SBB	0.086	39.000
1.01	109070	4 BV	0.101	0.101
1.27	310230	4 VP	0.150	0.200
2.84	3907400	4 PV	1.260	3.570
3.65	7290400	VV	0.840	2.000
4.02	633050	VV	0.343	0.870
4.54	1701400	VB	0.200	1.600
5.40	713600	BV	0.243	0.600
5.81	312770	VV	0.267	0.200
6.44	300540	VV	0.232	0.200
6.76	1259400	VV	0.265	1.150
7.07	1969100	VV	0.311	1.700
7.81	4000300	VV	0.520	4.000
8.51	1039000	VV	0.371	0.900
9.46	1444500	VV	0.416	1.700
9.89	2910300	VV	0.476	2.600
10.65	5095200	VV	0.472	4.600
11.37	763500	VV	0.360	0.800
12.16	7161500	VV	0.574	6.500
13.70	5508100	VV	0.756	5.100
15.49	5030000	VV	0.719	4.600
17.52	7537600	VV	0.813	6.800
18.91	2001300	VV	1.175	1.900
20.65	1032100	VV	1.122	0.900
22.50	2356500	VV	1.261	2.150
25.42	2350000	VV	1.453	2.140
27.48	2100100	VV	1.230	1.990
35.85	1240100	1 BH	1.207	1.140

TOTAL AREA= 1.0947E+03  
 MUL FACTOR= 1.0000E+00

A-9-8-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

TRANSFORME.  
SAMPLE NO. 477 Transformer

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

These samples were analyzed by Gas Chromatography (EPA method 608).  
This system is equipped with an electron capture detector.

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

Organic Analyses ug/L (ppb)

PCB's 4400. = 9.4 PPM .05

This sample was found to contain a concentration of 4400. ug/L of  
aroclor 1260.

nd: none detected

*Kary M. Lohak*  
LABORATORY DIRECTOR

ACCEPTABLE  
LEVEL (BELOW 50 PPM)

A-9-9-38

S10P

WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 1

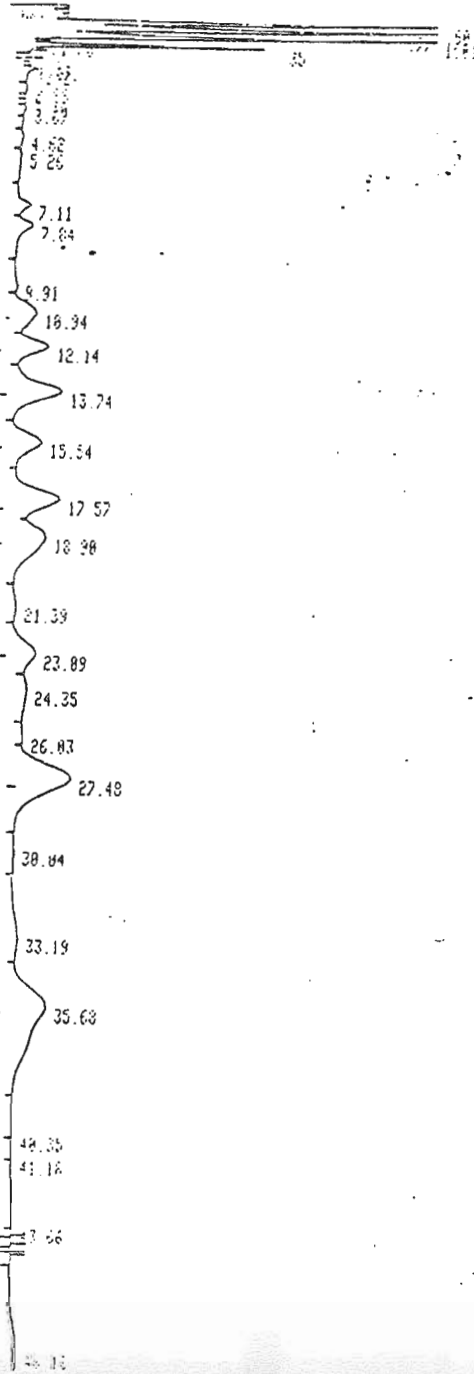
RCB

Ar. #1260

## AREA

FT	AREA	TYPE	AR/HT	AREA%
0.50	6700200	SPB	0.066	14.072
0.72	2172600	T8V	0.051	4.563
0.77	1236300	DTVV	0.053	2.597
0.90	112650	TVV	0.040	0.237
1.01	4006000	TVB	0.065	8.502
1.20	59070	BY	0.070	0.126
1.35	1331000	VB	0.078	2.796
1.91	7402	BY	0.097	0.016
2.07	22612	VV	0.120	0.048
2.24	107970	VP	0.140	0.227
2.38	32783	PV	0.264	0.060
3.40	22614	VV	0.195	0.048
3.67	43366	VV	0.219	0.091
4.62	49721	PV	0.353	0.104
5.26	35281	VP	0.431	0.074
7.11	374710	PV	0.385	0.707
7.84	583200	VP	0.468	1.225
9.91	66313	PV	0.448	0.139
10.94	1403500	VV	0.858	2.990
12.14	1550100	VV	0.683	3.256
13.74	2754000	VP	0.758	5.706
15.54	1418400	PV	0.765	3.399
17.57	2285000	VV	0.855	6.269
18.90	2971600	VV	1.193	6.157
21.39	185200	VV	0.803	0.309
23.09	1600100	VV	1.001	3.529
24.35	1443100	VV	1.305	3.031
26.03	622310	VV	0.247	1.308
27.48	5508400	VV	1.283	11.737
30.04	141190	VV	1.206	0.297
33.19	610040	VV	1.505	1.201
35.68	5369900	VV	2.092	11.278
40.35	70560	VV	3.031	0.165
41.18	7552	VP	2.030	0.016
42.66	65293	PV	2.674	0.137
43.18	1512700	I BH	2.359	3.177

TOTAL AREA= 4.7613E+07  
 MUL FACTOR= 1.0000E+00

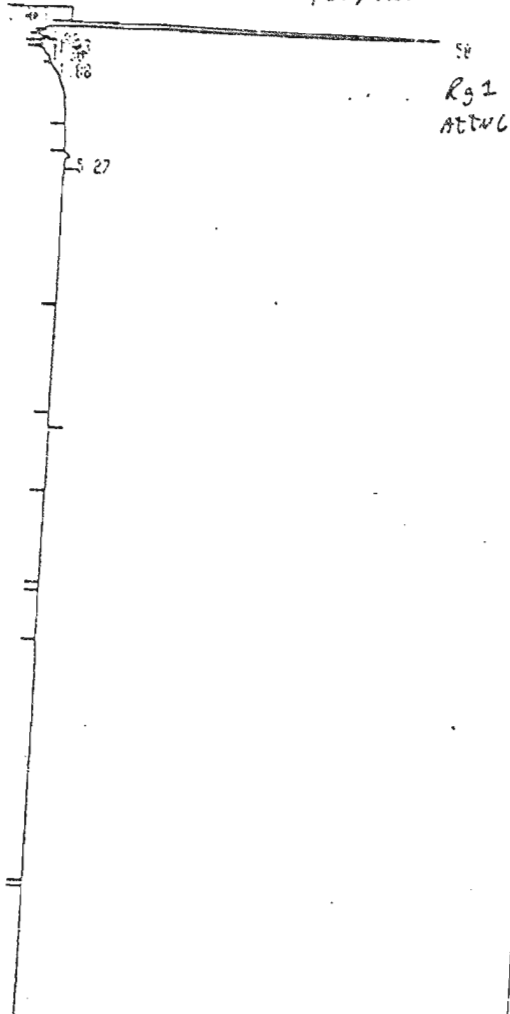




A-9-10-38

LINE 4 5 8

PCB/POST



RUN # 116  
WORKFILE ID: C  
WORKFILE NAME:  
SAMPLE # 1

AREA	RT	AREA	TYPE	AR/HT	AREA
0.58	7743900	SEB	0.057	95.433	
0.82	23765	BP	0.056	0.295	
1.03	48415	PB	0.063	0.557	
1.38	63123	BP	0.136	0.779	
1.88	154748	PB	1.287	1.987	
5.27	79997	BB	0.209	0.986	

TOTAL AREA= 8114000  
MUL FACTOR= 1.0000E+00

A-9-11-38

SAMPLE 8 1

AREA	RT	AREA	TYPE	AR/HT	AREA
	0.50	3.1005E+07	TSPB	0.062	27.591
	0.82	18252	SP	0.076	0.016
	1.03	144548	PV	0.102	0.129
	1.29	161700	VP	0.171	0.144
	1.75	685040	PV	0.418	0.538
	2.86	1917300	VV	0.390	1.786
	3.23	856960	VV	0.393	0.763
	3.66	1889600	VV	0.469	0.978
	4.02	660700	VV	0.300	0.588
	4.38	434840	VV	0.280	0.387
	4.55	1375400	VV	0.586	1.224
	5.26	1577500	VV	0.559	1.404
	7.10	3163500	VV	0.834	2.815
	7.82	2686600	VV	0.687	2.320
	8.53	1144700	VV	0.568	1.019
	9.89	2618000	VV	1.176	2.331
	10.92	4642700	VV	1.092	4.132
	12.13	3828500	VV	0.643	3.487
	13.72	6790100	VV	0.924	6.043
	15.51	4691900	VV	0.935	4.175
	17.57	7142000	VV	0.992	6.357
	18.25	6380600	VV	1.383	5.614
	21.37	2483900	VV	1.515	2.210
	23.13	4289000	VV	1.207	3.816
	24.35	3989700	VV	1.631	3.551
	27.51	9070500	VV	1.310	8.072
	32.07	1851100	VV	1.965	0.935
	35.77	7786400	VV	2.115	6.929
	43.12	193000	BP	2.048	0.172
	48.39	724070	I PP	1.861	0.644

TOTAL AREA= 1.1237E+08  
MUL FACTOR= 1.0000E+00

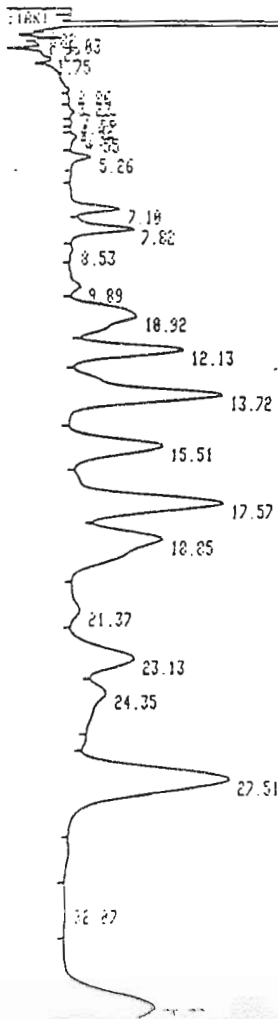
STOP

LIST: LIST  
PEAK CAPACITY: 996

ZERO = 10.0.74  
ATT 21 = 5  
CHT SP = 0.5  
FK WD = 0.04  
THRESH = 2  
AR REJ = 1000

L152: ZERO = 10.0.00

500PP6 1260 RS1  
ATTN5  
6000



A-9-12-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn., NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 428 (Sludge)  
SAMPLE RCD. 04/22/82  
ANALYSIS COMP. 05/12/82

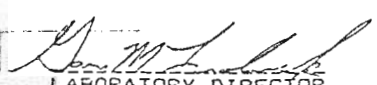
IDENTIFICATION: Kramer Environmental  
PO Box 1299, Clifton, NJ 07012

These samples were analyzed by Atomic Absorption Spectrophotometry.  
This method included direct aspiration and graphite furnace techniques.

TEST PARAMETERS: \_\_\_\_\_ RESULTS: \_\_\_\_\_ DETECTION LIMITS: \_\_\_\_\_

### Metals Analyses mg/Kg (ppm)

Arsenic (As)	0.55	.001
Barium (Ba)	8.82	.05
Cadmium (Cd)	0.37	.005
Chromium (Cr, T)	2.18	.002
Chromium (Cr, Hex)	N/A	.001
Lead (Pb)	11.16	.08
Mercury (Hg)	.0019	.0001
Selenium (Se)	0.69	.001
Silver (Ag)	0.39	.001

  
LABORATORY DIRECTOR

A-9-13-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jct. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 178 (Sludge-A)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### RCRA Analyses

Reactivity mg/L (ppm)

Cyanide (T)

< 0.5

0.5

Sulfide (T)

119.

.006

Corrosivity (units)

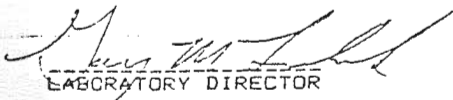
pH

6

Ignitability (Deg F)

Flash Point

> 212 F

  
LABORATORY DIRECTOR

A-9-14-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 478 (Sludge)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012.

TEST PARAMETERS: \_\_\_\_\_ RESULTS: \_\_\_\_\_ DETECTION LIMITS: \_\_\_\_\_

### Physical Analyses

% Solids

90 %

<= less than

*Mary M. Lohr*  
LABORATORY DIRECTOR

A-9-15-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 306 Rt. 52  
Hopewell Jctn., NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 973/Sludge

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/12/87

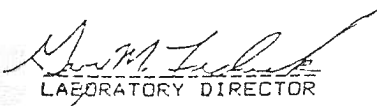
IDENTIFICATION: Kramer Environmental  
PO Box 1299, Clifton, NJ 07012

These samples were analyzed by Atomic Absorption Spectrophotometry.  
This method included direct aspiration and graphite furnace techniques.

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### Metals Analyses mg/Kg (ppm)

Arsenic (As)	4.66	.001
Barium (Ba)	14.7	.05
Cadmium (Cd)	3.06	.005
Chromium (Cr, T)	3.71	.002
Chromium (Cr, Hex)	N/A	.001
Lead (Pb)	11.48	.08
Mercury (Hg)	.0043	.0001
Selenium (Se)	0.028	.001
Silver (Ag)	0.35	.001

  
LABORATORY DIRECTOR

A-9-16-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jct. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 479 (Sludge)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### RCRA Analyses

Reactivity mg/L (ppm)

Cyanide (T)

< 0.5

0.5

Sulfide (T)

7.7

.006

Corrosivity (units)


pH

7

Ignitability (Deg F)

Flash Point

> 212 F

  
LABORATORY DIRECTOR

A-9-17-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 479 (Sludge)  
SAMPLE RCD. 04/22/87  
ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012


TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### Physical Analyses

% Solids

75 %

<= less than

  
LABORATORY DIRECTOR



A-9-18-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jct. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 480 (01-A)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: \_\_\_\_\_ RESULTS: \_\_\_\_\_ DETECTION LIMITS: \_\_\_\_\_

### RCRA Analyses

Reactivity mg/L (ppm)

Cyanide (T)

1.1

0.5

Sulfide (T)

2.3

.006

Corrosivity (units)

pH

7

Ignitability (Deg F)

Flash Point

> 212 F

  
LABORATORY DIRECTOR

A-9-19-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6276

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

*COMPOSITE A*

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn., NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 480 (Oil-A)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/12/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299, Clifton, NJ 07012

These samples were analyzed by Atomic Absorption Spectrophotometry.  
This method included direct aspiration and graphite furnace techniques.

TEST PARAMETERS: \_\_\_\_\_ RESULTS: \_\_\_\_\_ DETECTION LIMITS: \_\_\_\_\_

### Metals Analyses mg/Kg (ppm)

Arsenic (As)	0.53	.001
Barium (Ba)	28.4	.05
Cadmium (Cd)	2.18	.005
Chromium (Cr, T)	1.82	.002
Chromium (Cr, Hex)	N/A	.001
Lead (Pb)	14.35	.08
Mercury (Hg)	.0012	.0001
Selenium (Se)	0.54	.001
Silver (Ag)	0.39	.001

*John M. Lohr*  
LABORATORY DIRECTOR

*CONTAINS PCBs*

*SEE 4th PAGE*

*ALL SAMPLES IN COMPOSITE  
MUST BE TESTED.*

A-9-20-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6276

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 306 Rt. 52  
Hoevel Jct. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 490 (Oil-A)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### PCPA Analyses

Reactivity mg/L (ppm)

Cyanide (T)

1.1

0.5

Sulfide (T)

2.3

.006

Corrosivity (units)

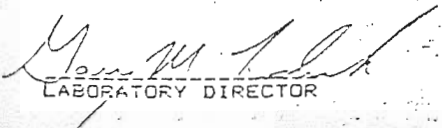
pH

7

Ignitability (Deg F)

Flash Point

> 212 F

  
LABORATORY DIRECTOR

A-9-21-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 480 (Oil-A)  
SAMPLE RCD. 04/22/82  
ANALYSIS COMP. 05/01/82

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### Physical Analyses

% Ash	52 %
% Water	41 %
BTU	8390.8 BTU/Lb

### Inorganic Analyses mg/Kg (ppm)

Chloride	10278.	1.0
----------	--------	-----

  
LABORATORY DIRECTOR

A-9-22-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 180 (021-A)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

These samples were analyzed by Gas Chromatography (EPA method 608).  
This system is equipped with an electron capture detector.

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

COMPOSITE A  
of 7 PITS

Organic Analyses ug/L (ppb)

PCB's

264400. = 264.4 PPM

.05

This sample was found to contain a concentration of 264400. ug/L of  
aroclor 1254.

nd: none detected

*John M. Lelich*  
LABORATORY DIRECTOR

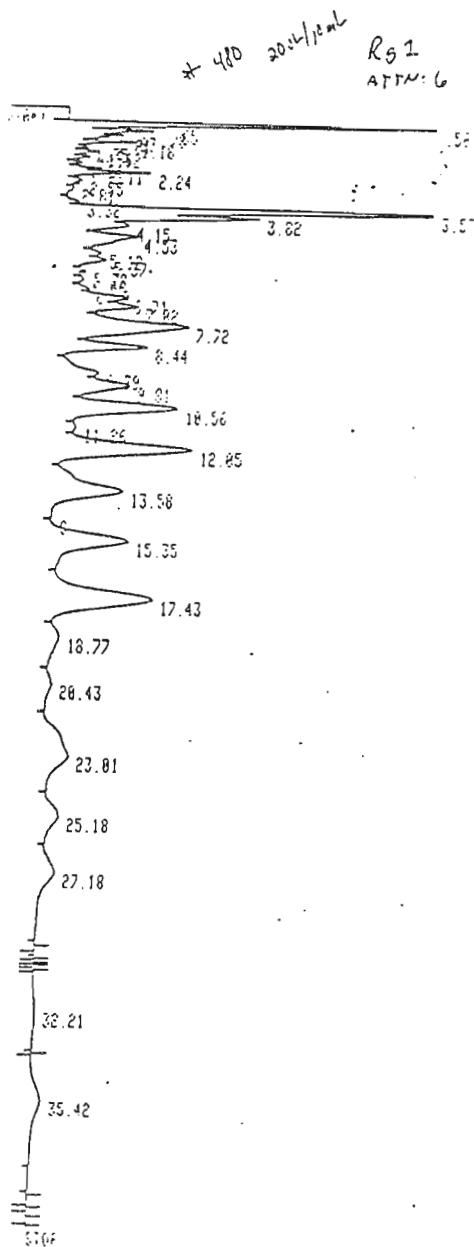
WORKFILE 10: C  
 WORKFILE NAME:  
 SAMPLE # 1

A-9-23-38

AREA#	RT	AREA	TYPE	AR/HT	AREA#
0.50	1.0045E+07	SBB	0.005		13.433
0.65	177360	TBP	0.047		0.237
0.78	395760	TPV	0.092		0.529
0.95	156730	TVV	0.070		0.210
1.01	82479	TVV	0.059		0.110
1.18	238460	TPV	0.068		0.319
1.35	15715	TVV	0.061		0.021
1.52	122549	TPV	0.082		0.164
1.71	162446	TPV	0.089		0.137
1.91	58700	TPV	0.081		0.079
2.11	235130	TVV	0.101		0.315
2.24	696010	TVV	0.115		0.932
2.55	157800	TVV	0.162		0.210
2.81	83415	TVV	0.191		0.112
3.32	133590	TPV	0.134		0.179
3.57	5883000	TVV	0.182		7.761
3.82	2863300	TVV	0.194		3.829
4.15	1354100	TVV	0.280		1.811
4.53	2196500	TVV	0.401		2.937
5.12	731240	TVV	0.254		0.978
5.37	890290	TVV	0.278		1.191
5.78	478750	TVV	0.278		0.640
6.06	438590	TVV	0.259		0.573
6.48	463500	TVV	0.229		0.628
6.71	1480000	TVV	0.207		1.383
7.02	1793400	TVV	0.311		2.485
7.72	5285400	TVV	0.541		7.063
8.44	2074200	TVV	0.311		2.774
9.39	1255600	TVV	0.402		1.679
9.81	2594600	TVV	0.470		3.470
10.56	4172100	TVV	0.450		5.579
11.26	611330	TVV	0.375		0.818
12.05	5594300	TVV	0.532		7.481
13.58	3533600	TVV	0.653		4.726
15.35	3824300	BY	0.647		5.114
17.43	5847100	VV	0.743		7.820
18.77	960790	VV	0.900		1.285
20.43	413010	VV	0.787		0.552
23.01	2936700	VV	1.473		3.927
25.18	1617500	VV	1.133		2.163
27.18	1535500	VP	1.224		2.053
32.21	284660	PP	1.295		0.274
35.42	1193200	BY	1.515		1.596

TOTAL AREA= 7.4777E+07  
 MUL FACTOR= 1.0000E+00

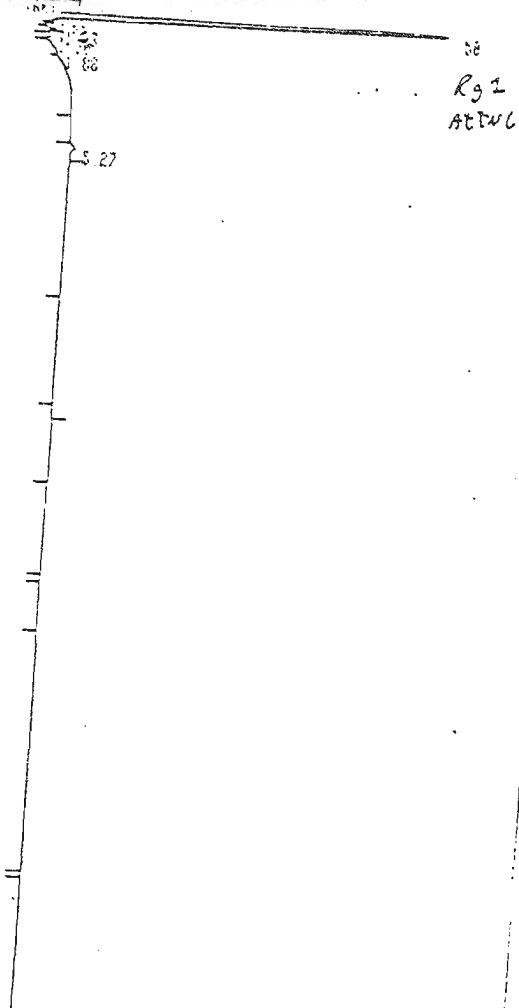
STOP



A-9-24-38

LINE 4 5 6

PCB/PST



RUN # 116  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 1

AREA	FT	AREA	TYPE	AP/HT	AREA
0.58	7743900	868	0.097	95.400	
0.82	23265	BP	0.056	0.230	
1.03	48415	PO	0.063	0.537	
1.38	63188	BP	0.136	0.770	
1.88	154748	PO	1.287	1.847	
5.27	79997	BP	0.289	0.586	

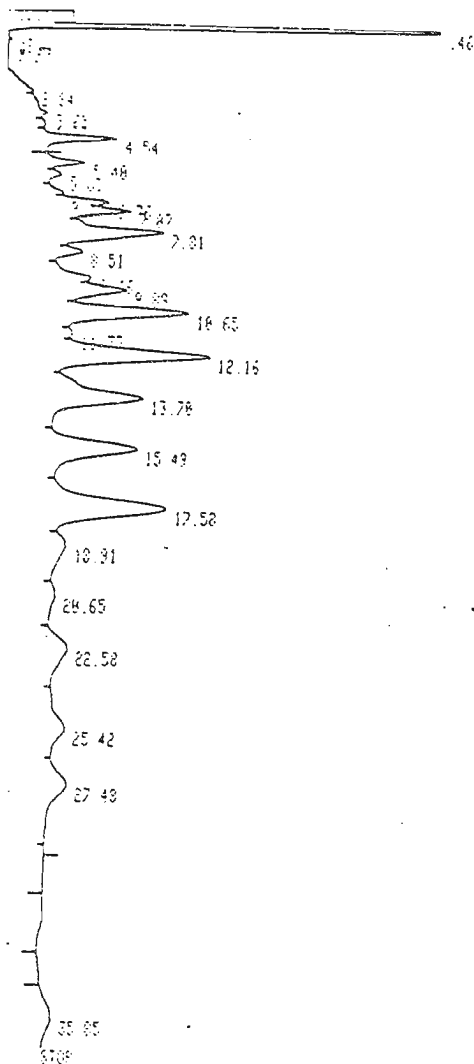
TOTAL AREA= 8114000  
 MUL FACTOR= 1.0000E+00

A-9-25-38

WORKFILE: 101 L  
WORKFILE NAME:

ATTN: 101 L  
SMT: 101 L  
PLOT: 101 L  
INSTR: 101 L  
AF: 101 L

500PPM 1254 STD  
= TO 1000L/100L  
500PPM



RT	AREA	TYPE	AR/HT	AR
0.46	4.3356E+02	1388	0.086	32.4
1.01	189828	4 BV	0.101	0.1
1.27	310230	4 VP	0.150	0.2
2.84	3907400	4 PV	1.260	3.5
3.65	2290400	VV	0.640	2.0
4.02	633850	VV	0.343	0.5
4.54	1781400	VB	0.283	1.1
5.40	713680	BV	0.243	0.8
5.81	312770	VV	0.267	0.8
6.44	368540	VV	0.232	0.8
6.76	1259400	VV	0.265	1.1
7.07	1969100	VV	0.311	1.1
7.81	4600300	VV	0.520	4.3
8.51	1039200	VV	0.371	0.9
9.46	1444500	VV	0.416	1.0
9.89	2912300	VV	0.478	2.0
10.65	5095200	VV	0.472	4.0
11.37	763580	VV	0.360	0.9
12.16	7161500	VV	0.574	6.5
13.78	5588100	VV	0.756	5.1
15.49	5038000	VV	0.719	4.6
17.58	7537600	VV	0.813	6.8
19.91	2001300	VV	1.175	1.6
20.65	1032100	VV	1.122	0.9
22.58	2356500	VV	1.261	2.1
25.42	2350800	VV	1.453	2.1
27.48	2100100	VV	1.230	1.6
35.85	1248100	I BH	1.287	1.1

TOTAL AREA= 1.0947E+09  
MUL FACTOR= 1.0000E+00



A-9-26-39



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

*COMPOSITE B*

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn., NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 481 (Oil-B)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/12/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

These samples were analyzed by Atomic Absorption Spectrophotometry.  
This method included direct aspiration and graphite furnace techniques.

TEST PARAMETERS: \_\_\_\_\_ RESULTS: \_\_\_\_\_ DETECTION LIMITS: \_\_\_\_\_

### Metals Analyses mg/Kg (ppm)

Arsenic (As)	0.46	.001
Barium (Ba)	8.53	.05
Cadmium (Cd)	12.87	.005
Chromium (Cr, T)	3.16	.002
Chromium (Cr, Hex)	N/A	.001
Lead (Pb)	26.79	.08
Mercury (Hg)	.0023	.0001
Selenium (Se)	0.157	.001
Silver (Ag)	<0.06	.001

*Thomas M. Lohr*  
LABORATORY DIRECTOR

*CONTAINS PCBs*

*SEE 4th PAGE  
ALL SAMPLES IN COMPOSITE  
MUST BE ANALYZED*

A-9-27-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jct. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 481 (oil-B)  
SAMPLE RCD. 04/22/87  
ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### RCRA Analyses

Reactivity mg/L (ppm)

Cyanide (T)

1.5

0.5

Sulfide (T)

.79

.006

Corrosivity (units)

pH

7

Ignitability (Deg F)

Flash Point

> 212 F

*Gary M. Throckmorton*  
LABORATORY DIRECTOR

A-9-28-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 481 (oil-8)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### Physical Analyses

% Ash	68%
% Water	20%
BTU	14740. BTU/Lb

### Inorganic Analyses mg/Kg (ppm)

Chloride	8470.	1.0
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*David M. Lelick*  
LABORATORY DIRECTOR

A-9-29-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 481 (Oil-B)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

These samples were analyzed by Gas Chromatography (EPA method 608).  
This system is equipped with an electron capture detector.

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

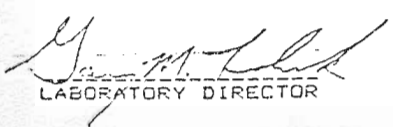
COMPOSITE B  
of 7 PITS

Organic Analyses ug/L (ppb)

PCB's 150000. = 150 PPM .05

This sample was found to contain a concentration of 150000 ug/L of  
aroclor 1254.

nd: none detected

  
LABORATORY DIRECTOR

和

57

	RT	ARC	TYPE	AR/HT	AREA
	0.53	2.0721E-17	SFB	0.170	9.653
	0.65	59019	TBF	0.061	0.028
		2894600	TPV	0.121	0.981
	0.94	1557903	TPV	0.134	0.729
	1.19	1375.00	TPV	0.094	0.679
	1.35	465309	TPV	0.139	0.213
	1.53	472610	TPV	0.113	0.221
	1.73	1883400	TPV	0.170	0.518
	1.92	466130	TPV	0.115	0.218
	2.13	284020	TPV	0.105	0.414
	2.26	2562800	TPV	0.125	1.200
	2.56	737600	TPV	0.194	0.345
	2.81	245810	TPV	0.177	0.115
	3.34	388930	TPV	0.129	0.182
	3.60	1.7075E+07	TPV	0.168	7.994
	3.86	8730400	TPV	0.213	4.067
	4.17	4081800	TPV	0.268	1.915
	4.56	6794300	TPV	0.432	3.180
	5.15	2266200	TPV	0.253	1.061
-	5.40	2753700	TPV	0.285	1.388
	5.81	1632700	TPV	0.295	0.774
	6.09	1135200	TPV	0.243	0.531
-	6.43	1479200	TPV	0.236	0.692
	6.75	4093300	TPV	0.291	1.916
-	7.06	5216700	TPV	0.312	2.442
-	7.28	1.3618E+07	TPV	0.546	6.375
-	8.43	3042700	TPV	0.309	1.424
-	9.44	3429900	TPV	0.400	1.596
-	9.96	7219800	TPV	0.462	3.380
-	10.61	1.1942E+07	TPV	0.444	5.543
-	11.33	1615100	TPV	0.369	0.756
-	12.11	1.6107E+07	TPV	0.546	7.540
-	13.65	1.0444E+07	TPB	0.637	4.089
-	15.42	1.2193E+07	BY	0.653	5.703
-	17.51	1.7075E+07	YY	0.767	8.367
-	18.86	3029100	YY	0.963	1.418
-	20.55	1282900	YY	0.798	0.681
-	23.14	9502500	YY	1.605	4.443
-	25.29	4752800	YY	1.091	2.225
-	27.33	4620400	YY	1.293	2.256
-	32.43	554790	PV	1.321	0.260
-	35.60	3900300	PV	1.508	1.863

TOTAL AREA= 2.1363E+08  
KUL FACTOR= 1.0000E+00

STOP

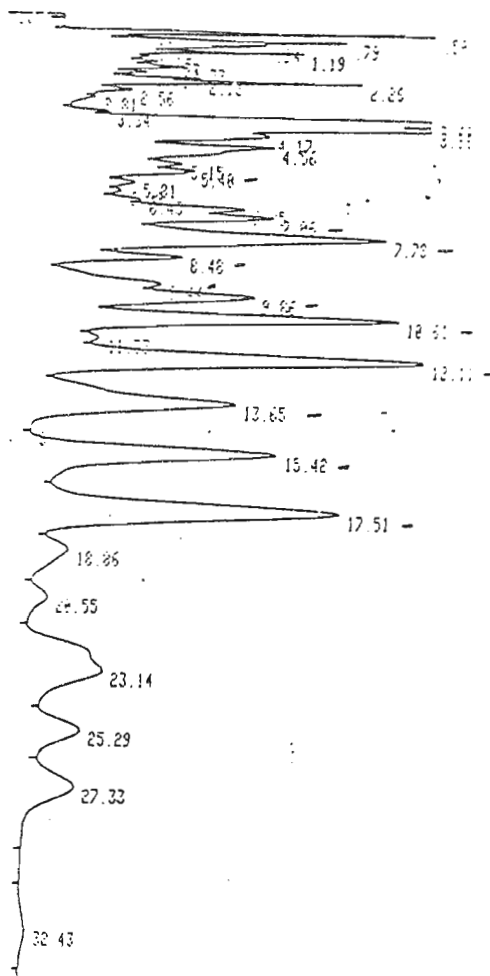
REPORTED

100

A-9-30-38

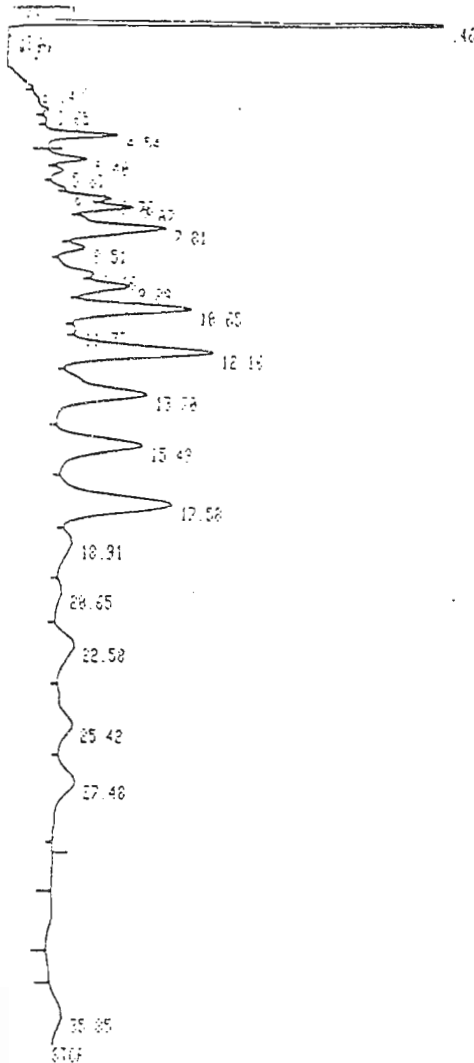
#421 1/10 (1:100)

253  
ATW



-T1- = 1  
 CH1 = 0  
 PL. NO. = 6.04  
 INP. SN. = 4  
 RE. P. = 1000

5.00% 1254 STD  
 = TO  
 100% 100%  
 50% 100%



A-7-32-38

WORKFILE NAME

AREA	RT	AREA TYPE	AR/HT	AR/HT
0.46	4.3356E+07	1588	0.086	39.27
1.01	189878	4 BY	0.101	0.17
1.27	310238	4 VP	0.158	0.27
2.84	3907400	4 PV	1.268	3.57
3.65	2290400	VV	0.848	2.02
4.02	633890	VV	0.343	0.57
4.54	1781400	V6	0.288	1.07
5.40	713680	BY	0.243	0.87
5.81	312770	VV	0.267	0.87
5.44	308540	VV	0.232	0.81
6.76	1259400	VV	0.265	1.15
7.07	1969100	VV	0.311	1.27
7.81	4600300	VV	0.520	4.17
8.51	1039270	VV	0.371	0.94
9.46	1444500	VV	0.416	1.73
9.89	2918300	VV	0.478	2.67
10.65	5095200	VV	0.472	4.67
11.37	763580	VV	0.360	0.60
12.16	7161500	VV	0.574	8.54
13.70	5588100	VV	0.756	5.10
15.49	5038000	VV	0.719	4.68
17.58	7537600	VV	0.813	6.88
18.91	2081300	VV	1.175	1.50
20.65	1032100	VV	1.122	0.94
22.58	2356500	VV	1.261	2.15
25.42	2350800	VV	1.453	2.14
27.48	2100100	VV	1.230	1.59
35.85	1248100	I BH	1.287	1.14

TOTAL AREA= 1.0947E+09  
 MUL FACTOR= 1.0000E+00

A-9-88-57



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn., NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 182 (Aqueous)  
SAMPLE RCD 04/22/87  
ANALYSIS COMP 05/12/87

IDENTIFICATION: Kramer Environmental  
PO Box 1289, Clifton, NJ 07012

These samples were analyzed by Atomic Absorption Spectrophotometry.  
This method included direct aspiration and graphite furnace techniques.

TEST PARAMETERS: \_\_\_\_\_ RESULTS: \_\_\_\_\_ DETECTION LIMITS: \_\_\_\_\_

### Metals Analyses mg/Kg (ppm)

Arsenic (As)	0.019	.001
Barium (Ba)	0.44	.05
Cadmium (Cd)	0.44	.005
Chromium (Cr, T)	0.30	.002
Chromium (Cr, Hex)	N/A	.001
Lead (Pb)	0.36	.08
Mercury (Hg)	.0034	.0001
Selenium (Se)	0.046	.001
Silver (Ag)	0.029	.001

*Gary M. Lohr*  
LABORATORY DIRECTOR

A-4-34-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 482 *Chlorides-1*

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/07/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### Physical Analyses

Suspended Solids (T)	1680. mg/L
Corrosivity (pH)	6

### Inorganic Analyses mg/L (ppm)

Chloride	75.0	1.0
Cyanide (T)	0.29	.05
Phosphate	0.6	.05
Sulfate	25.0	5.0

*Sam M. Felt*  
LABORATORY DIRECTOR



A-9-35-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15525

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 482 (Aqueous)

SAMPLE RCD. 04/22/87

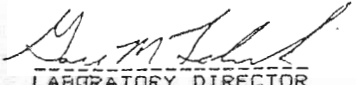
ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### Organic Analyses mg/L (ppm)

Organic Carbon (T)	265.	1.0
COD	1800.	10.0
BOD (5 day)	106.	1.0

  
LABORATORY DIRECTOR

A-9-36-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn., NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 483 (Aqueous)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/12/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299, Clifton, NJ 07012

These samples were analyzed by Atomic Absorption Spectrophotometry.  
This method included direct aspiration and graphite furnace techniques.

TEST PARAMETERS: \_\_\_\_\_ RESULTS: \_\_\_\_\_ DETECTION LIMITS: \_\_\_\_\_

### Metals Analyses mg/Kg (ppm)

Arsenic	(As)	0.018	.001
Barium	(Ba)	0.51	.05
Cadmium	(Cd)	0.33	.005
Chromium	(Cr, T)	0.19	.002
Chromium	(Cr, Hex)	N/A	.001
Lead	(Pb)	0.36	.08
Mercury	(Hg)	.0034	.0001
Selenium	(Se)	0.055	.001
Silver	(Ag)	0.029	.001

  
LABORATORY DIRECTOR

A-9-37-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 482 (Liquors)  
SAMPLE RCD. 04/22/87  
ANALYSIS COMP. 05/02/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: RESULTS: DETECTION LIMITS:

### Physical Analyses

Suspended Solids (T) 1452. mg/L  
Corrosivity (pH) 7

### Inorganic Analyses mg/L (ppm)

Chloride	100.0	1.0
Cyanide (T)	0.5	.05
Phosphate	2.0	.05
Sulfate	50.0	5.0

*Don M. Lohr*  
LABORATORY DIRECTOR

A-9-38-38



# ENVIRONMENTAL PROFILE LABORATORIES

ROUTE 37 BUSINESS PARK  
TOMS RIVER, NJ 08753  
201-244-6278

## CERTIFICATE OF ANALYSIS

NJ DEP CERTIFIED LAB NO. 15526

CLIENT: Robert Mark  
PO Box 308 Rt. 52  
Hopewell Jctn. NY 12533  
EPA ID# NYD 981557747

SAMPLE NO. 483 (Liqueurs)

SAMPLE RCD. 04/22/87

ANALYSIS COMP. 05/01/87

IDENTIFICATION: Kramer Environmental  
PO Box 1299 Clifton, NJ 07012

TEST PARAMETERS: \_\_\_\_\_ RESULTS: \_\_\_\_\_ DETECTION LIMITS: \_\_\_\_\_

Organic Analyses mg/L (ppm)

Organic Carbon (T)	300.	1.0
COD	3000.	10.0
BOD (5 day)	120.	1.0

  
LABORATORY DIRECTOR

REF. A-10-1-1

**Robert-Mark Realty, Inc.**  
COMMERCIAL DIVISION

914-221-3700

RECEIVED  
MAY 21 1987  
NYS DEC  
REGION 3

314

May 21, 1987

Ms. Aida Vazquez, Assistant Sanitary Engineer  
Attention Mr. William Buskey, Inspector  
NYS Department of Environmental Conservation  
21 South Putt Corners Road  
New Paltz, NY 12561

RE: Hazardous Waste Compliance Inspection Date: October 31, 1986  
Location of Handler: 1929 Associates  
Fairview Avenue  
Poughkeepsie, NY 12601

EPA Identification Number: NYD001220672

This letter is in reply to the letter from David Mafriqi, P.E., dated May 5, 1987 with regard to the above subject.

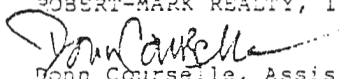
On Monday, May 18, 1987, Storonske Cooperage Company of Schodack Center, New York picked up 72 empty 55 gallon drums and removed them from the premises. This was the maximum number that could be transported in a load. There were five 55 gallon empty drums and a few 5 and 1 gallon empty containers left behind. Several of the emptied 55 gallon drums have been put to miscellaneous uses by tenants at the premises. Arrangements will be made shortly for the removal of the remaining empty drums and containers.

Enclosed please find the laboratory reports which we received from Kramer Environmental pertaining to the pits at the subject facility. Pending review of the reports, a remedial action program shall be developed.

If you have any questions, please feel free to contact me.

Sincerely,

ROBERT-MARK REALTY, INC.

  
Donn Courselle, Assistant to President  
Commercial Division

jac

Enclosures

cc Mr. David Blackman, P.E.  
Mr. Jerard Hankin, Esq.

R: 52, P.O. Box 308, Hopewell Junction, N.Y. 12533

ABOVE INFORMATION IS SUBJECT TO ERRORS, OMISSIONS, PRIOR SALE OR WITHDRAWAL WITHOUT NOTICE

REF. A-11-1-6

VALENTINO T. SAMMARCO, ESQ.  
Route 9 & Kessler Drive  
P.O. Box 681  
Hyde Park, NY 12538  
Tel: (914) 229-8838

RECEIVED

APR 8 1987

NYS DEC  
REGION 3

March 31, 1987

State of New York Department of State  
Uniform Fire Prevention and Building  
Code Division  
162 Washington Avenue  
Albany, NY 12231

ATTN: Carl R. Sager, Director

Re: Fairview Fire District with  
Town of Poughkeepsie

Dear Mr. Sager:

I have been requested by the Board of Fire Commissioners of the Fairview Fire District of the Towns of Hyde Park and Poughkeepsie to request that your agency, or the appropriate division of the Department of State, undertake immediately an investigation into the Fire Code and Building Code enforcement practices of the Town of Poughkeepsie relative to the following owned properties contained within the Fairview Fire District and Town of Poughkeepsie:

A. Schatz Federal Bearing Complex  
60 - 70 Fairview Avenue  
Poughkeepsie, New York

1. There are several buildings located in this complex which are believed owned by 1929 Associates, 319 Main Mall Rear, Poughkeepsie, New York. Several businesses rent space in the complex including Pleasant Valley Finishing Co., Inc., P.O. Box 5100, 60 Fairview Ave., Poughkeepsie, New York; Atlantic Design, Inc.; Acme Caster; Sargio Industries; Fairview Lithographic; Schatz Manufacturing; and Rehabilitation Programs.

2. The Town of Poughkeepsie has not adequately enforced the fire and building codes at this complex thereby exposing users of the complex, firemen, and the public to the risk of death, serious bodily injury, or property damage. The Fairview Fire District has sought the intervention of the Officials of the Town of Poughkeepsie to enforce the law, and compel the numerous occupants of the buildings to correct

the numerous code violations. Good cooperation was received from the Town of Poughkeepsie Fire Inspector, Don A. Murphy. However, other officials have not adequately supported Mr. Murphy in his endeavors to have the codes enforced. The following information and copies of correspondence are provided in chronological order to give background, and support for this application now being made for a state investigation.

- a) May 19, 1985 - interdepartmental memo from Chief of department to firemen regarding hazardous conditions at site.
- b) November 20, 1985, letter, Don A. Murphy, fire inspector to Pleasant Valley Finishing Co., concerning sprinkler systems.
- c) April 10, 1986, letter from City of Poughkeepsie Fire Chief to Fairview Fire District Chief containing copy of April 10, 1986 letter from Poughkeepsie Fire Chief to Mr. Murphy concerning fires and code violations at Pleasant Valley Finishing Co., Inc.
- d) April 16, 1986, letter, Fire Inspector Murphy to Pleasant Valley Finishing Co., Inc., regarding a fire and the inoperable sprinkler systems.
- e) April 24, 1986, reply letter, Pleasant Valley Finishing Co., Inc., to Mr. Murphy regarding functioning of sprinkler system.
- f) May 14, 1986, internal memo, Deputy Chief, City of Poughkeepsie Fire Department to the officers of the fire department, setting down safety procedures for the building complex due to code violations.
- g) May 16, 1986, letter, Chief Dormeyer to Mr. Murphy regarding a fire and continued violation at building complex.
- h) May 28, 1986, letter, Mr. Murphy to Pleasant Valley Finishing Co., Inc. commending the company on work done since October 9, 1985, but listing the present violations.
- i) June 17, 1986, letter, Mr. Murphy to 1929 Associates setting forth code violations and requiring compliance in 30 days.
- j) July 11, 1986, letter, Fairview Fire District to the Town of Poughkeepsie Building Inspector requesting certificates of occupancy, list of reported zoning and building code violations, and copy of the Fire Inspector's report concerning the Schatz building

as well as buildings used by Marist College. (To date, the requested information has not been provided).

k) July 14, 1986, letter, Town of Poughkeepsie Fire Inspector to owner, 1929 Associates.

l) September 2, 1986, letter, Fairview Fire District to Town of Poughkeepsie Building Inspector requesting a response to July 11, 1986 letter. (To date there has been no response).

m) September 2, 1986, letter, Fairview Fire District to Town Board of the Town of Poughkeepsie requesting to be put on the agenda of a Town Board meeting regarding matters raised in the July 11, 1986, letter to the Town Building Inspector.

n) September 5, 1986, Notice of Violation and Order to Abate from City of Poughkeepsie Fire Inspector regarding 8 - 10 Fairview Avenue building located in City of Poughkeepsie and owned by 1929 Associates.

o) September 16, 1986, letter, to Fairview Fire District from Town of Poughkeepsie Supervisor indicating that the Town directed the Building Inspector to provide information requested by the Fire District. (To date, no information has been provided).

p) September 26, 1986, letter with Order to Remedy Violation, from Town of Poughkeepsie Fire Inspector to Pleasant Valley Finishing Co., Inc., regarding fires at complex and problems with sprinkler system, and other violations previously reported but not corrected.

q) Town of Poughkeepsie Order to Remedy Violation dated October 29, 1986, issued to Acme Casters for open burning at 70 Fairview Avenue.

3. Rehabilitation Programs, Inc., has installed a drop ceiling which prevents access to the sprinkler system.

4. There is every reason to believe that certificates of occupancy have not been issued by the Town of Poughkeepsie for occupancy of the buildings at the Schatz complex. There presently exist approximately 90 barrels of an unidentified chemical substance. The Department of Environmental Conservation had removed six barrels. Within the complex there are open pits containing chemicals into which anyone could fall, including firemen attempting to perform their firematic duties. The buildings at the Schatz complex do not meet the building and fire code of the State or Town of Poughkeepsie and should be immediately closed.



down for operation unless compliance can be obtained at once. The public including firemen should not have to bear a substantial risk to life and limb because of the failure of a municipality to enforce the building and fire code.

5. The fire inspector in the Town of Poughkeepsie apparently reports directly to the Town Building Inspector and not to the Town Board. The fire inspector has done an excellent job in making his inspections and reporting the violations. However, action has not been taken by the building inspector or Town to enforce the removal of the violations. It is recommended that new legislation be drafted to mandate that the fire inspector of each municipality be responsible for fire code enforcement, and be given the direct authority to enforce the fire codes. The fire inspector should report directly to the Town Board.

B. McCann Center, located at Marist College Campus  
North Road  
Poughkeepsie, New York

6. On March 5, 1987, Fire Inspector Murphy along with Deputy Fire Chief Richard Dormeyer, conducted an inspection of the McCann Center which has a principal use as a gymnasium. Based upon the square footage of the building and the number of exits, Mr. Murphy determined that the seating capacity should be approximately 1,993 people. The building was completed in 1976. The building may or may not have been issued a certificate of occupancy. Attached hereto as item "R" is a copy of Mr. Murphy's rough notes supporting his computation of the 1,993 maximum seating occupancy. Mr. Murphy determined that the building's principal use was as a gymnasium.

7. On March 6, 1987, the Town of Poughkeepsie Building Inspector Authur La Pan had posted a sign at the center indicating that the seating capacity is 4,271 people. Attached hereto as item "S" is a photo sheet containing copies of a photograph of the sign and of a Fairview Fire District "NO SMOKING" sign. Upon information and belief, more than 4,000 people did in fact occupy the McCann center for a basketball game on the evening of March 6, 1987. There is every reason to believe that Mr. La Pan classified the principal use of the center as a multi-purpose room or auditorium rather than as a gymnasium. Also, he may have counted as an exit in his computations, a doorway leading through a storage room. This doorway does not comply with the codes. On the night of March 6, 1987, the storage room was filled with news camera people and reporters, blocking the doorway.

8. The town building inspector in fact overruled the town fire inspector by posting the seating capacity at 4,271 rather than 1,993. The building on the evening of March 6, 1987, was overcrowded and the existing exits could not possibly handle the number of people to be evacuated in the event of a fire.

9. The Marist College personnel are amenable to providing more exits at the center. However, the Town Building inspector has not made such a request. There should be a state investigation: to determine the validity of the building inspector's determination; and to determine the legal relationship between a municipal building inspector, and the municipal fire inspector.

C. THE WESTERN PUBLISHING CO. BUILDING COMPLEX (MID-HUDSON  
Route 9 BUSINESS PARK)  
Poughkeepsie, New York

10. This complex houses several businesses, and also classrooms for Marist College. Upon information and belief, there are few, if any, certificates of occupancy issued for the present users of the building. In addition the building contains flagrant building and fire code violations placing students and other users of the building at risk.

CONCLUSION

11. The Fairview Fire District has a duty to safeguard the residents of the fire district from the risk of personal injury and property damage resulting from fire. Also, the Fire District provides emergency ambulance service. When members of the public and members of the fire department enter a building they should be assured that the building complies with the state and municipal building and fire codes. The present Town of Poughkeepsie Fire Inspector has made every effort to enforce the fire codes. However, as set forth in this letter, the codes are not being enforced by the Town of Poughkeepsie. The Fairview Fire District requested of the Town Building inspector copies of certificates of occupancy and copies of reported building and fire code violations by letter dated July 11, 1986. (item j). The information was never produced.

It is requested that an investigation be conducted by the appropriate state agency to determine whether the Town of Poughkeepsie

-6-

is following proper procedure in the conduct of building and fire code inspections and in the enforcement of the codes. It is further requested that inquiry be made into the advisability of passing legislation which would give a town fire inspector the authority to make inspections and enforce building and fire code rules and laws directly, rather than being required to act under the direction and control of the town building inspector.

Thank you for your anticipated cooperation. I shall await your written response.

Very truly yours,

VALENTINO T. SAMMARCO  
Attorney to the Fairview  
Fire District

VTS/jeh

cc: Hon. Gail Shaffer, Secretary of State  
Hon. Gordon Ambach, NYS Commissioner of Education  
Hon. Jay P. Rolison, Jr.  
Hon. Stephen M. Saland  
Director - McCann Center of Marist College  
Dr. Dennis Murray, President of Marist College  
Hon. Ann Bucholz, Supervisor, Town of Poughkeepsie  
Town Board of the Town of Poughkeepsie  
Hon. Arthur La Pan, Zoning & Building Inspector  
Hon. Donald Murphy, Fire Inspector, Town of Poughkeepsie  
~~New York State Department of Environmental Conservation~~  
Pleasant Valley Finishing Company, Inc.  
1929 Associates  
Fire Chief James C. Davison, City of Poughkeepsie  
Fire Inspector William Wagler, Arlington Fire Department  
Atlantic Design Company  
Acme Casters, Inc.  
Sarjo Industries Hardware  
Rehabilitation Programs, Inc.  
Fairview Lithographics  
Schatz Manufacturing Company  
Mid-Hudson Business Park

REF. A-12-1-2

314074

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*Attorneys at Law*

JERARD S. HANKIN  
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LEGAL ASSISTANTS  
LISA PECCHIA  
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KAREN VERONESI  
SANDRA DESMEDI  
CHRISTINE CUTLER

RECEIVED  
APR 10 1987

NYS DEC  
REGION 8

ADDRESS REPLY TO:

☐ 319 MAIN MALL REAR  
PO. BOX 911  
POUGHKEEPSIE, NEW YORK 12602-0911  
(914) 471-7177

☒ EAST FISHKILL OFFICE  
ROUTE 52  
PO. BOX 127  
HOPEWELL JUNCTION, NEW YORK 12532  
(914) 221-2424

☐ DANBURY, CONNECTICUT OFFICE  
30 MAIN STREET  
SUITE 202  
DANBURY, CONNECTICUT 06810-8046  
(203) 792-3203

April 9, 1987

Valentino T. Sammarco, Esq.  
Route 9 & Kessler Drive  
PO BOX 681  
Hyde Park New York 12538

RE: Fairview Fire District with Town of Poughkeepsie

Dear Mr. Sammarco:

This office represents Schatz 1929 Associates, Inc. and I am the President of this corporation which owns the property on Fairview Avenue, in the Town of Poughkeepsie. The group of investors purchased this property approximately four or five years ago, for One Million Dollars. It was a group of buildings that had been built in the early 1900's through the 1940's. At the time of the purchase this was a plant that had been abandoned and had fallen into disrepair. Unbeknownst to the purchaser, it had inherited numerous old barrels that allegedly contained cutting oil. As it now turns out these barrels contain chemicals.

The owners have been working very diligently with the Department of Environmental Conservation to have all of the barrels removed and all of the required testing performed. As a matter of fact, a substantial number of barrels have already been removed and arrangements have been made to remove the balance of the materials and the testing to be performed. This is a very expensive proposition that was never anticipated however it is being undertaken.

I believe that Mr. Donald Murphy, the Fire Inspector, for the Town of Poughkeepsie, has been very diligent in the performance of his duties. I have been in contact with him on numerous occasions on behalf of the owner and have tried to comply with as many of his requests as possible. As a matter of fact we have had one entire building boarded up as per his latest request.

I believe that there has to be a balancing of the equities when you take a building or buildings of this age. I believe that the Building Inspector of the Town of Poughkeepsie probably is looking at the overall picture and fully understands that you have to comply with those items that

A-12-2-2


are most critical as soon as possible and the other items have to be negotiated between all the parties as to the implementation. There is no doubt in my mind that if these were all implemented immediately that we would have to close up the buildings and walk away from the site. However this does not change the fact that we are ready, willing and able to work with all of the requirements of the municipality providing they are reasonable in their request and the timing.

I firmly believe that probably any building that has not been built in the last two years has many, many violations. I would venture to guess that if Mr. Murphy went into any of the IBM buildings, owned by IBM, he could probably have a whole list of violations.

As far as Rehabilitation Programs, Inc. is concerned, this is a new facility which was designed by state architects and I believe complies with all of the necessary codes and provisions.

We certainly do not want to endanger the firemen in any way, but to give you some idea, during the first year alone it cost in excess of one Hundred Thousand Dollars to heat the vacant buildings in order to have the sprinkler system operational. Then we find out that the sprinkler system had been hooked up to the domestic water supply and this was totally unacceptable. As far as I know the main complaint is the lack of sprinkler systems in buildings that are unoccupied. I do not believe that this creates a threat to the firemen, and I do believe once the chemicals are removed from the premises that we should be in major compliance with the ordinances. Please advise.

Sincerely,  
HANKIN, HANIG, STALL & SHAFRAN

  
GERARD S. HANKIN

JSH:ig

REF. A-13-1-14

STATE OF NEW YORK  
DEPARTMENT OF CONSERVATION  
WATER RESOURCES COMMISSION

## Ground-Water Resources of Dutchess County, New York

By

E. T. SIMMONS, I. G. GROSSMAN, AND R. C. HEATH  
Geologists, U. S. Geological Survey



*Prepared by the*  
U. S. GEOLOGICAL SURVEY  
*in cooperation with the*  
NEW YORK WATER RESOURCES COMMISSION

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BULLETIN GW-43  
ALBANY, N. Y.

1961

## GEOGRAPHY

Location and Setting

Dutchess County is in southeastern New York State, about halfway between New York City and Albany. It is one of a row of counties east of the Hudson River that border on the New England States. The county is bordered on the east by the State of Connecticut, on the south by Putnam County, on the west by the Hudson River, and on the north by Columbia County and the Commonwealth of Massachusetts.

Dutchess County is rectangular in outline and has an area of 215 square miles. It extends about 34 miles in a north-south direction and 22 miles in an east-west direction. Most of it lies between meridians  $73^{\circ}30'$  and  $73^{\circ}59'$  west longitude and parallels  $41^{\circ}30'$  and  $42^{\circ}04'$  north latitude. The population of the county in 1950 was 136,781, about 40 percent of which was concentrated in the cities of Poughkeepsie and Beacon.

Topography

The surface of Dutchess County is moderately irregular, consisting of an almost continuous alternation of hills and valleys (pl. 1). Flat areas, though present in most parts of the county, are generally small and occupy a minor proportion of the area. The county is divided on the basis of topography into two relatively distinct parts. The smaller of these consists of the area in the northwestern part of the county west of Wappinger Creek and longitude  $73^{\circ}45'W$ . This area is characterized by numerous small, irregularly shaped hills, most of which range in height from about 20 to about 100 feet above the intervening valleys. Scattered throughout the area, however, are a few small, regularly shaped hills that rise 200 to 300 feet or more above the adjacent valleys. Altitudes in this area range from about 40 feet above sea level near the Hudson River to about 900 feet above sea level at Old Round Top. Drainage is not so well developed as in the remainder of the county, as indicated by the presence of numerous swamps.

The remainder of the county--that is, east of longitude  $73^{\circ}45'W$  in the northern part of the county and east and south of Wappinger Creek in the central and southern parts of the county--is characterized by numerous regularly shaped hills and low mountains. These are larger and generally higher than those in the northwestern part. Many of the hills in this area range in altitude from 500 to 1,000 feet above the floors of the valleys. The highest altitudes generally occur along the southern and eastern boundaries of the county. South Beacon Mountain, near the southwest corner of the county reaches an altitude of 1,602 feet above sea level. Brace Mountain, in the extreme northeast corner, reaches an altitude of 2,311 feet above sea level, the highest point in the county. South Beacon Mountain and the other mountains in the southern part of the county mark the northern limit of the Hudson Highlands, a belt of northeast-trending mountains under-

## GEOLOGY

Ground water occurs in all the geologic formations in Dutchess County and most of these are important sources of water. With respect to the principal kinds of openings in which the water occurs, these formations are placed in two major groups: (1) consolidated rocks that range in age from Precambrian to Ordovician, and (2) unconsolidated deposits of Pleistocene and Recent age. The areal extent of the different bedrock formations is shown on plate 2. These rocks underlie the entire county and crop out at the surface principally on hillsides and hilltops. In most of the county, however, the bedrock is overlain by unconsolidated deposits, which range in thickness from less than a foot on steep hills to more than 100 feet in some of the larger valleys. The areal extent of the different types of unconsolidated deposits is shown on plate 3. The principal events leading to the present-day distribution of the consolidated rocks and unconsolidated deposits in the county are described briefly in the following paragraphs. Although this report is a cooperative product of the New York Water Resources Commission and the U. S. Geological Survey, the geologic nomenclature does not necessarily follow that of the U. S. Geological Survey.

Geologic History

The oldest known strata in the county were laid down as clayey and limy mud and sand in a sea which covered the area in Precambrian time, more than 500 million years ago. After deposition, these strata were subjected to great heat and pressure which accompanied the intrusion of extensive masses of granite. The sediments were metamorphosed to a gneiss by the heat and pressure, and the gneiss is now so completely penetrated by the granite that the two look very much alike and hence are referred to on the bedrock map (pl. 2) as "undifferentiated granite and gneiss." The intrusion of the granite was followed by a long period of erosion during which the area was reduced to a low plain.

During the Cambrian, the first period of the Paleozoic era, the sea once again advanced over the area. A thick mass of sediments, consisting chiefly of sand and limy mud, collected on the sea floor. Deposition of limy mud and of clay and sandy clay continued into the succeeding Ordovician period. All these sediments were subsequently consolidated into beds of sandstone, limestone, and shale. At the end of the Ordovician, these beds were folded, metamorphosed, and raised above sea level during an episode of mountain-making known as the Taconic orogeny. During this orogeny the sandstone, limestone, and shale in the southern and eastern parts of the county were converted, through metamorphism, to quartzite, marble, and phyllite and schist. During and following the Taconic orogeny the area was subjected to another long period of erosion. Some deposition may have occurred in the general area during subsequent periods of the Paleozoic era, although no bedrock younger than Ordovician is known to occur. Crustal movements near the end of Devonian time known as the Acadian disturbance, during which rocks in areas to the north and west were faulted, also may have affected the rocks in Dutchess County.



## Consolidated Rocks

The bedrock underlying the county is composed of highly metamorphosed rocks of Precambrian age, and partially metamorphosed rocks of Paleozoic age. The older rocks, those of Precambrian age, consist mainly of granite and gneiss. The younger rocks, of Paleozoic age, consist of a larger variety of rock types, including quartzite, limestone, dolomite, marble, shale, phyllite, slate, and schist. Differences in age, degree of metamorphism, and lithology influence the water-bearing properties of the consolidated rocks. Thus, as an aid in understanding the occurrence of ground water in these rocks in different parts of the county, each of the principal types, as differentiated in table 2, is discussed separately in the following paragraphs.

Undifferentiated granite and gneiss.--Almost a tenth of Dutchess County is underlain at or near the surface by masses of northeast-trending igneous and metamorphic rocks of Precambrian age consisting chiefly of granite and gneiss. The largest mass underlies the southern part of the county from the Hudson River to the Connecticut State line. This mass ends abruptly 2 to 3 miles north of the southern border of the county against a series of sub-parallel major faults (pl. 2). Erosion of less resistant Paleozoic rocks north of the faults has resulted in a row of granite and gneiss spurs which are prominent topographic features in the southern part of the county.

The second largest mass of granite and gneiss underlies the group of prominent hills east of Dover Plains. Smaller bodies of granite and gneiss crop out at Corbin Hill, north of Pawling; at Stissing Mountain, west of Pine Plains; northeast of Beacon; and south of Sprout Creek, a few miles southeast of Poughkeepsie (pl. 2). The elongate mass northeast of Beacon has been called the Matteawan granite (Mather, 1843, pl. 18) and the Glenham gneiss (Gordon, 1911, p. 18). In the southwestern part of the county, the granite was subdivided into the Canada Hill granite and Storm King granite by Berkey and Rice (1921). The gneiss, which contains some schist and limestone, was called "Grenville gneiss and schists" by Berkey and Rice. However, in an earlier study of the southwestern part of the county, Gordon (p. 11) grouped together all the granite and gneiss along the southwestern border of the county under the term "Precambrian gneisses."

Balk (1932 and 1935) mapped the same rocks in the eastern part of the county and made a detailed study of their structure. In his reports, and in a report by Barth (1936), the granite and gneiss were combined into one major group, undifferentiated Precambrian gneiss. Because these rocks have not been further subdivided in the eastern part of the county and because there appear to be no significant differences in their water-bearing properties, the granites and the gneisses are grouped together in this report as "undifferentiated granite and gneiss."

In physical appearance, most of the granite and gneiss consists of light and dark minerals presenting a speckled appearance (granite) or arranged in layers (gneiss). The light minerals consist chiefly of quartz, feldspar, and white mica (muscovite). The dark minerals include black mica (biotite), garnet, and hornblende. Extensive and readily accessible exposures of gneiss can be seen in road cuts along the Taconic State Parkway near the Putnam County line. These rocks are more resistant to weathering than the younger Paleozoic rocks, as is reflected by the more rugged topography and higher altitudes in areas where they crop out. Most of the layers (foliation) in the granite and gneiss strike northeast, approximately parallel to the long axis of the Hudson Highlands, and dip steeply to the southeast. Exceptions occur near thrust faults where the strike and dip of the foliation parallel the faults. Most of the large and prominent spurs underlain by granite and gneiss in the southern part of the county point northeastward, and the long axes of the smaller bodies also are aligned in that direction.

Cheshire quartzite.--A compact, strong quartzite, which is so tough that it is deliberately avoided by some drillers, crops out at a few localities in Dutchess County. This quartzite has been called the Poughkeepsie quartzite by Berkey and some other geologists working in New York. It is called the Cheshire quartzite in this report, after its type locality at Cheshire, Berkshire County, Mass. (Emerson, 1917, p. 32-34). The quartzite unconformably overlies the Precambrian granite and gneiss and is the oldest Paleozoic rock in the county. In the southern and eastern parts of the county the quartzite forms the flanks of the higher ridges that are underlain by granite and gneiss. In the east-central part of the county, quartzite underlies several areas along the southern and western borders of the granite and gneiss in the vicinity of Dover Plains. Quartzite is present also in the southern part of Stissing Mountain in the north-central part of the county.

The Cheshire quartzite ranges in thickness from a few feet to about 600 feet. A thickness of about 250 feet has been reported at Stissing Mountain (Knopf, 1956, p. 11). The base of the formation may be conglomeratic and the top contains shaly beds in some places. In general, the quartzite is less strongly metamorphosed in the west than in the east. Some outcrops in the western part of the county still retain original sedimentary features, including bedding, crossbedding, and ripple marks. In the southeast, however, the original bedding has been destroyed by fracturing and recrystallization.

Where the Cheshire quartzite is composed almost entirely of quartz, it is white. Where small amounts of feldspar, mica, and other impurities are mixed with the quartz, it is pink or buff.

The Cheshire is not important as a source of ground water because of its small areal extent and because it underlies steeply sloping hillsides which are sparsely settled. Only five wells in the county are known to tap quartzite; these are listed in table 13.

Stockbridge limestone.--Over the Cheshire quartzite is a thick sequence of carbonate rocks, which underlie a much greater part of the county than the quartzite. In the east, carbonate rocks lie beneath the broad Harlem Valley, which contains Tenmile River and its principal tributaries and which extends almost without interruption from the Fulton County line to the Columbia County line. In the south, the valley of Fishkill Creek is underlain by limestone which extends from Beacon northeastward to the head of the creek. Other areas in the western and central parts of the county also are underlain by elongate masses of carbonate rocks (pl. 2).

Several different names have been applied to the carbonate rocks in different parts of the county, including Barnegat limestone (Mather, 1843, p. 410), Fishkill limestone (Gordon, 1911, p. 70), and Wappinger limestone (Gordon, p. 48). Knopf (1956, p. 1817) found that the carbonate rocks near Stissing Mountain range in age from Early Cambrian to Early Ordovician and divided them into the Stissing dolomite, Pine Plains formation, Briarcliff, dolomite, Halcyon Lake formation, and Rochdale limestone. Because there appear to be no essential differences in the water-bearing properties of the carbonate rocks, all are included in this report under the Stockbridge limestone, after the locality in Massachusetts where they were first described (Emmons, 1842, p. 154-156).

The carbonate rocks range in composition from almost pure calcium carbonate (limestone) to almost pure calcium-magnesium carbonate (dolomite). Limestone is more abundant in the upper part of the sequence and dolomite is more common in the lower part. Table 3 lists an analysis of a typical sample of dolomite from the Stockbridge limestone.

This analysis shows that more than 10 percent of the dolomite consists of impurities, chiefly silica and alumina. In some localities these impurities are abundant enough to form sandy and shaly beds in the Stockbridge.

Table 3.--Chemical composition of dolomite <sup>1/</sup> from the  
Stockbridge limestone

Determination	Percent by weight
Lime (CaO).....	29.07
Magnesia (MgO).....	16.29
Carbonic acid (H <sub>2</sub> CO <sub>3</sub> ).....	40.76
Alumina (Al <sub>2</sub> O <sub>3</sub> ).....	2.33
Ferric oxide (Fe <sub>2</sub> O <sub>3</sub> ).....	.47
Silica (SiO <sub>2</sub> ).....	10.17
Total.....	99.09

<sup>1/</sup> Collected at the Stoneco quarry of the Clinton Point  
Stone Co. about 4 miles south of Poughkeepsie.  
Analysis from Ries (1901, p. 779).

The metamorphism of the Stockbridge limestone generally increases in intensity from northwest to southeast. In the northwest and west, the formation is relatively undisturbed and original bedding is easily visible. Fossils have been found in the formation as far south as Clove Valley. Farther east, however, as in the Valley of Swamp River, the formation has been metamorphosed to a marble and the beds are severely folded. Balk noted that the folding is greater in the thin layers than in the thicker ones and that it is greatest near thrust faults. In the southeastern part of the county, the marble has been so severely deformed by plastic flow that it appears to be wrapped around stronger rocks. South of Pawling, the marble contains masses of schist that are folded and faulted into the limestone.

The deformation of the Stockbridge limestone makes it difficult to determine its thickness. In southwestern Putnam County, where the formation is relatively undisturbed, the thickness is about 1,000 feet. At Stissing Mountain, near Pine Plains in the north-central part of Dutchess County, the thickness of the different limestones and dolomites measured by Knopf (1946, p. 1211) totals 2,800 feet. The thickness of the carbonate rocks is

probably about 1,000 feet in most places in the county. The Stockbridge limestone weathers readily and commonly forms valley and lowland areas. In the valley of Fishkill Creek, solution cavities filled with clay and sand have been reported.

Hudson River formation. --The Hudson River formation is the most extensive bedrock unit in the county. As may be seen from plate 2, it extends from the Hudson River in the west to the Connecticut State line in the east, interrupted by only a few relatively narrow limestone belts. The name "Hudson River slate group" was first used by Mather (1840, p. 212, 256-258) for the slaty rocks in the southeastern part of the State. Gordon (1911) mapped these rocks in the Poughkeepsie quadrangle as the "Hudson River group." Berkeley and Rice (1921) mapped the same rocks in southwestern Dutchess County as "Hudson River shales and phyllites." In the southeastern part of the county these rocks are referred to as "Hudson River pelite" in publications by Balk (1936) and Barth (1936). In the Copake quadrangle in southeastern Columbia County, the names Elizaville shale (mainly Cambrian, possibly including some Lower Ordovician), Berkshire schist (Ordovician), and Trenton black slate (Ordovician) have been used by Weaver (1957, pl. 1) for rocks that extend southward into northeastern Dutchess County. Ruedemann (1942) divided the predominantly argillaceous rocks in the Catskill quadrangle, in northwestern Dutchess County, into the Nassau beds and Schodack shale (including Bomoseen grit) of Cambrian age, and the Deepkill shale and Normanskill shale (including the Mount Merino member and the Austin Glen member) of Ordovician age. As used in this report, the Hudson River formation includes all the argillaceous and schistose rocks in Dutchess County.

Although the Hudson River formation is preponderantly argillaceous, it includes a large variety of rock types. The lower part of the unit contains much sandstone ("grit") and is locally called bluestone by some well drillers. The unit also contains chert and beds of sandstone, limestone, and conglomerate. Quartz veins are very abundant. The shale itself is locally black, gray, red, or green.

The metamorphism of the Hudson River formation increases in intensity from northwest to southeast, just as in the Stockbridge limestone. At Red Hook, in the northwestern part of the county, the unit is a shale. The shale grades imperceptibly southeastward into a slate and then into a lustrous phyllite. Between the valley of Wappinger Creek and the headwaters of Fishkill Creek, it is chiefly a phyllite. Farther southeast, between Fishkill Creek and the Harlem Valley it is predominantly a garnet-bearing schist. In the extreme southeastern part of the county, east of Pawling, it is a gneissic schist. The gneissic schist in this area contains amphibolite lenses and pegmatite intrusions.

The change in metamorphism is accompanied by a change in mineral composition. In the relatively unmetamorphosed phases of the formation in the northwestern and central parts of the county, the chief minerals are quartz and mica. In the strongly metamorphosed phase in the southeast, feldspar is an important additional constituent. Table 4 includes chemical analyses of rocks from various parts of the Hudson River formation, ranging from the relatively unmetamorphosed "slate" near Lagrangeville to the highly metamorphosed gneiss east of Pawling. There appear to be no radical chemical differences among the different samples. From the standpoint of mineral composition, however, the gneiss shows a greater percentage of feldspar (plagioclase) and a smaller percentage of white mica (muscovite) than does the slate and phyllite.

The structure of the Hudson River formation, like the mineral composition, changes progressively from northwest to southeast. In the relatively unmetamorphosed rocks between the valleys of Wappinger Creek and Fishkill Creek small closely spaced subparallel joints resulting from slaty cleavage are numerous. The spacing of these joints ranges from a fraction of an inch to several inches, and is wider in the more sandy parts of the formation. Openings of the bedding-plane type can be recognized in this area and to the northwest. In the southeastern part of the county, slaty cleavage is absent and the rocks are massive. Joints that are present are spaced from a few inches to several feet apart, rather than inches or fractions of an inch.

The thickness of the Hudson River formation is unknown because the beds in the southeast and east have been severely folded and faulted and because elsewhere individual beds can not be traced over long distances. The apparent thickness of the formation in Dutchess County ranges from a few feet to several thousand feet. Most wells of average depth drilled in this unit are not likely to penetrate other rocks unless they are drilled near the contact with the underlying limestone.

The type of overlying material has an important effect on the yield of wells in bedrock. Table 7 shows that the average yield of wells tapping bedrock that is overlain by sand and gravel is more than 30 gpm. By contrast, the average yield of bedrock wells where the overlying material consists predominantly of clay or till is only about 13 gpm. Deposits of sand and gravel store large amounts of water and transmit water readily to the underlying bedrock where hydraulic continuity exists between the two materials. However, some of the large yields reported from bedrock wells overlain by sand and gravel may result from leakage of water from the overlying permeable deposits directly into the well. The yield of wells in bedrock where the overlying unconsolidated deposits are absent or are less than 10 feet thick is about the same, or only a little greater, than of wells where the overlying deposits are thicker but consist of impermeable till or clay. Thus, it may be concluded that thick but impermeable deposits which tend to retain the water above the bedrock have about the same effect on yield of bedrock as no overlying material at all.

Topographic location apparently affects the yield of bedrock wells in some areas (Ellis, 1909, p. 10). In Dutchess County, the yield is generally highest from bedrock wells situated in valleys and is lowest on hills. Table 8 shows that the average yield of wells in valleys is about 20 gpm compared to an average of about 16 gpm for wells on hillsides and an average of about 12 gpm for wells on hilltops. The Cheshire quartzite is not included in the table because only a few records of wells drawing from this formation are available. The influence of topography on the yields of wells apparently stems, at least in part, from the fact that the water table is generally closer to the land surface in valleys than on hills. Thus, wells of the same depth penetrate a greater thickness of saturated material in valleys than on hills and yield more water, other things being equal.

It should be emphasized that the factors affecting the yield of wells in bedrock are interdependent and tend to operate in the same direction. Thus, most wells drilled in valleys have comparatively large yields not only because of their favorable topographic location but also because the bedrock there is more permeable and is more likely to be overlain by permeable sand and gravel. Similarly, most wells drilled on hills yield smaller quantities of water not only because of a less favorable topographic situation, but also because the bedrock is less likely to be overlain by permeable deposits.

Table 19.—Pattern of aggregated calls to purchase security (continued)

Well	Locality	Owner	Altitude		Depth below surface level of surface water [ft.]	Depth below surface level of surface water [ft.]	Diameter of well [in.]	Water-bearing formation [ft.]	Water level [ft.]	Method of lowering water	Yield [gpm]	Remarks
			Top of well [ft.]	Base of well [ft.]								
1	11° 15' N, 105° 15' W	Town of Millbrook	400	20	40	--	Platonicus gravel	--	For refill	--	Well is dry in summer	
2	11° 15' N, 105° 15' W	Village of Red Bank	400	15	60	--	Platonicus sand and gravel	7	Suction	25	Well is dry in summer	
3	11° 15' N, 105° 15' W	Pine Plains Water Co.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
4	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
5	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
6	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
7	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
8	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
9	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
10	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
11	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
12	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
13	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
14	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
15	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
16	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
17	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
18	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
19	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
20	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
21	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
22	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
23	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
24	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
25	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
26	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
27	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
28	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
29	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
30	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
31	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
32	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
33	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
34	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
35	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
36	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
37	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
38	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
39	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
40	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
41	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
42	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
43	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
44	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
45	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
46	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
47	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
48	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
49	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
50	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
51	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
52	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
53	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
54	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
55	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
56	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
57	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
58	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
59	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
60	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
61	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
62	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
63	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
64	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
65	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
66	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
67	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
68	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
69	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
70	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
71	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
72	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
73	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
74	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
75	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
76	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
77	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
78	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
79	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
80	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
81	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
82	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
83	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
84	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
85	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
86	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
87	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
88	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
89	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
90	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
91	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
92	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
93	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
94	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
95	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
96	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
97	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
98	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
99	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	
100	11° 15' N, 105° 15' W	do.	400	15	100	--	do.	--	For refill	50	Well is dry in summer	



Table 13. -- Records of selected wells in Hudson County (Continued)

Well	Location	Owner or occupant	Altitude above sea level (feet)	Type of well	Depth below land surface (feet)	Diameter of well (inches)	Depth to bottom of water-bearing formation (feet)	Water-bearing formation	Water level below land surface (feet)	Period of observation (year)	Yield (gpm)	Remarks
W-1	145, 16, 15, 2.0E	M. E. Prout	800	Dr	86	6	5	Granite and gneiss, undiff.	30	Jan	4.5	Flow
W-2	157, 0.6S, 8.9E	United Trustee	400	Dr	70	8	--	Pleistocene gravel	75	March	2.0	Flow
W-3	157, 2.3S, 4.0E	R. Ward	710	Dr	165	6	77	Stockbridge limestone	--	--	--	Drill down 2 1/2 ft after pumping 250 gpm for 20 h. Temperature 51°F, May 1953, (a).
W-4	147, 2.3S, 4.0E	do.	710	Dr	330	6	--	Pleistocene till	--	--	--	Bedrock contains seams of clay.
W-5	147, 2.3S, 4.0E	do.	710	Dr	203	6	--	Pleistocene sand and gravel	33	Jan	1	Flow
W-6	147, 2.3S, 11.5E	M. Johnson	370	Dr	203	6	--	Pleistocene sand and gravel	33	Jan	1	Flow
W-7	147, 2.3S, 11.5E	do.	370	Dr	59	6	--	Pleistocene gravel	11	Section	10	Flow
W-8	147, 4.0S, 8.6E	Mingale Chemical Corp.	440	Dr	547	10	15	Stockbridge limestone	17	Section	50	Flow
W-9	147, 8.1S, 9.1E	Mingale Oliver	430	Dr	135	6	120	do.	16	Section	10	Flow
W-10	147, 4.5S, 10.8E	Lebe Ellis Camp Corp.	660	Dr	125	6	10	Granite and gneiss, undiff. or Stockbridge limestone	3	Core	75	Flow
W-11	147, 4.5S, 10.8E	do.	400	Dr	135	6	--	Pleistocene sand and gravel	--	do.	25	Flow
W-12	157, 15.2S, 9.0E	Federal Bearings Co.	180	Dr	1,176	6	27	Hudson River formation	6	Section	50	Flow
W-13	147, 10.1S, 4.1E	M. B. Hall	420	Dr	35	6	8	Stockbridge limestone	8	Section	--	Flow
W-14	147, 8.4S, 4.8E	Jay Holmes	770	Dr	271	6	162	Hudson River formation	--	Force	10	Flow
W-15	147, 4.8S, 10.7E	Mingale Country Club	400	Dr	400	6	--	Pleistocene sand	--	--	10	Flow
W-16	147, 5.1S, 10.6E	Remond Pressing Co.	440	Dr	310	6	5	Stockbridge limestone	--	Section	--	Flow
W-17	147, 6.8S, 2.7E	R. McKinney	460	Dr	170	6	--	Pleistocene gravel	33	Jan	--	Flow
W-18	147, 6.8S, 3.0E	do.	560	Dr	161	6	20	Stockbridge limestone	19	Section	--	Flow
W-19	147, 6.5S, 3.0E	do.	520	Dr	80	6	--	Pleistocene gravel	20	Force	--	Flow
W-20	147, 2.3S, 9.4E	Robert Lerner	300	Dr	117	6	16	Stockbridge limestone	20	Jan	5	Flow
W-21	147, 4.0S, 9.6E	George Murphy	440	Dr	145	6	10	do.	22	Force	5	Flow
W-22	147, 3.4S, 9.4E	do.	410	Dr	21	60	21	Pleistocene gravel	7	Flow	--	Flow
W-23	157, 3.3S, 6.2W	H. Sosa	520	Dr	101	6	6	Granite and gneiss, undiff.	--	Jan	4	Flow
W-24	147, 11.1S, 11.4E	Carroll Vacation Club, Inc.	1,100	Dr	670	8	0	Hudson River formation	--	Section	--	Flow
W-25	147, 11.7S, 7.3E	Holiday Hills	505	Dr	225	6	8	Stockbridge limestone	13	Jan	5	Flow
W-26	147, 13.3S, 8.5E	Smith Johnson	560	Dr	210	6	6	do.	--	do.	10	Flow
W-27	147, 12.5S, 9.8E	Robert Brees	660	Dr	300	6	5	Hudson River formation	--	do.	50	Flow
W-28	147, 1.0S, 3.2E	R. Antille	710	Dr	181	6	8	do.	10	do.	6	Flow
W-29	147, 3.0S, 4.0E	J. E. Hays	430	Dr	26	56	--	Pleistocene gravel	9	Section	--	Flow

Table 13. -- Records of selected wells in Hudson County (Continued)

Table 13. - Summary of data from wells in the St. Lawrence River Valley, Quebec, Canada (Cont.)

Well	Location	Owner or occupant	Altitude above sea level (feet)	Type well	Depth below land surface (feet)	Depth to bedrock (feet)	Water-bearing formation	Water level below land surface (feet)	Method of lifting water	Yield (gallons per hour)	Remarks	
											13	14
W-50	100° 15' N, 6° 35' W	H. E. Long	1,110	Dr	315	6	2	Modern River formation	Force	12	Dr	Well flows.
W-51	100° 15' N, 6° 35' W	H. E. Long	915	Dr	131	6	16	do.	do.	--	Dr	Well supplies home by gravity line.
W-52	100° 15' N, 6° 35' W	H. E. Long	1,070	Dr	10	36	10	Platistocene till	None	--	Dr	Water has relatively high iron content.
W-53	100° 15' N, 6° 35' W	H. E. Long	1,170	Dr	18	48	17	do.	Suction	--	Dr	Well supplies two homes.
W-54	100° 15' N, 6° 35' W	H. E. Long	910	Dr	31	48	31	do.	Hand	--	Dr	Well supplies two homes.
W-55	100° 15' N, 6° 35' W	H. E. Long	780	Dr	51	6	16	Granite and gneiss, unroofed	Jet	3	Dr	Temperature 49°F, July 1919.
W-56	100° 15' N, 6° 35' W	H. E. Long	700	Dr	16	36	--	Platistocene sand	Suction	--	Dr	do.
W-57	100° 15' N, 6° 35' W	H. E. Long	900	Dr	22	10	22	Platistocene till	do.	--	Dr	do.
W-58	100° 15' N, 6° 35' W	H. E. Long	100	Dr	100	6	21	Granite and gneiss, unroofed	Force	17	Dr	do.
W-59	100° 15' N, 6° 35' W	H. E. Long	910	Dr	31	40	31	Platistocene till	Suction	--	Dr	do.
W-60	100° 15' N, 6° 35' W	H. E. Long	360	Dr	72	6	26	Steeplebridge limestone	None	3	Dr	do.
W-61	100° 15' N, 6° 35' W	H. E. Long	360	Dr	24	40	--	Platistocene gravel	Suction	--	Dr	do.
W-62	100° 15' N, 6° 35' W	H. E. Long	680	Dr	130	6	5	Modern River formation	Force	5	Dr	do.
W-63	100° 15' N, 6° 35' W	H. E. Long	770	Dr	14	38	14	Platistocene till	Suction	--	Dr	do.
W-64	100° 15' N, 6° 35' W	H. E. Long	100	Dr	87	6 to 4	2	Steeplebridge limestone	Jet	10	Dr	Drainage containing large veins of clay. Temperature 54°F, August 1919.
W-65	100° 15' N, 6° 35' W	H. E. Long	360	Dr	420	8	21	do.	Force	65	Dr	Temperature 51°F, July 1919. Average consumption is 20 gpm and.
W-66	100° 15' N, 6° 35' W	H. E. Long	590	Dr	125	6	7	Modern River formation	do.	12	Dr	Temperature 50°F, July 1919. (a).
W-67	100° 15' N, 6° 35' W	H. E. Long	540	Dr	16	40	15	Platistocene till	--	--	Dr	do.
W-68	100° 15' N, 6° 35' W	H. E. Long	580	Dr	200	6	--	Steeplebridge limestone	Force	45	Dr	Temperature 52°F, July 1919.
W-69	100° 15' N, 6° 35' W	H. E. Long	900	Dr	106	6	30	Granite and gneiss, unroofed	Suction	30	Dr	Well flows at 4 gpm. Temperature 49°F, July 1919. (a).
W-70	100° 15' N, 6° 35' W	H. E. Long	300	Dr	65	6	54	Steeplebridge limestone and Platistocene deposits	Force	10	Dr	Drainage contains large veins of clay. (a).
W-71	100° 15' N, 6° 35' W	H. E. Long	200	Dr	89	6	89	Platistocene sand	None	--	Dr	Well hole for City of Boston. (a).
W-72	100° 15' N, 6° 35' W	H. E. Long	200	Dr	510	16 to 8	140	Platistocene gravel and Steeplebridge limestone	--	1,400	Dr	Well finished with 67 ft of 12-inch screen. (a) (b).
W-73	100° 15' N, 6° 35' W	H. E. Long	260	Dr	550	6	18	Modern River formation	Force	25	Dr	Most of these similar wells are nonproductive; all supply water for cooling.
W-74	100° 15' N, 6° 35' W	H. E. Long	500	Dr	351	6	40	do.	do.	6	Dr	Drainage 21 ft after pumping 4 gpm for 12 hrs. Temperature 50°F, July 1919.
W-75	100° 15' N, 6° 35' W	H. E. Long	600	Dr	237	6	93	do.	Jet	7	Dr	Like water also used. Temperature 53°F, July 1919.
W-76	100° 15' N, 6° 35' W	H. E. Long	610	Dr	215	6	17	do.	Force	5	Dr	Drainage 119 ft after pumping 4 gpm for 2 hrs.
W-77	100° 15' N, 6° 35' W	H. E. Long	620	Dr	18	42	18	Platistocene till	Suction	--	Dr	do.
W-78	100° 15' N, 6° 35' W	H. E. Long	510	Dr	45	6	14	Modern River formation	--	20	Dr	Temperature 49°F, July 1919.

Table 11. -- Records of selected wells in Southern Mexico (continued)

Well	Location	Owner or occupant	Altitude above sea level (feet)	Type of well	Depth		Water-bearing formation	Depth below land surface (feet)		Method of lifting	Yield in gallons per minute	Remarks
					to surface (feet)	to bottom (feet)		to surface (feet)	to bottom (feet)			
No. 1	15° 11' N., 96° 14' W.	Robert McElmish	520	Drl	170	6	Hudson River formation	--	--	--	6	Temperature 50° F., July 1959.
No. 2	15° 11' N., 96° 14' W.	Robert McElmish	560	Drl	76	6	do.	--	--	Jet	5	Well supplies camp.
No. 3	15° 11' N., 96° 14' W.	Robert McElmish	360	Drl	158	6	do.	--	--	Force	--	do.
No. 4	15° 11' N., 96° 14' W.	Robert McElmish	360	Drl	400	6	do.	--	--	Jet	5	do.
No. 5	15° 11' N., 96° 14' W.	Robert McElmish	200	Drl	112	6	do.	--	--	Jet	7	do.
No. 6	15° 11' N., 96° 14' W.	Robert McElmish	230	Drl	200	8	do.	--	--	Turbine	50	do.
No. 7	15° 11' N., 96° 14' W.	Robert McElmish	360	Drl	88	6	Cheshire quartzite	4	24	Suction	2	do.
No. 8	15° 11' N., 96° 14' W.	Robert McElmish	370	Drl	15	6	Hudson River formation	12	3	do.	22	Temperature 48° F., July 1959. (a).
No. 9	15° 11' N., 96° 14' W.	Robert McElmish	430	Drl	130	6	Stockbridge limestone	26	3	Force	9	do.
No. 10	15° 11' N., 96° 14' W.	Robert McElmish	160	Drl	168	6	do.	21	16	--	10	do.
No. 11	15° 11' N., 96° 14' W.	Robert McElmish	100	Drl	160	6	do.	--	--	--	68	do.
No. 12	15° 11' N., 96° 14' W.	Robert McElmish	100	Drl	525	--	do.	--	--	--	20	do.
No. 13	15° 11' N., 96° 14' W.	Robert McElmish	470	Drl	162	6	Hudson River formation	--	--	--	11	Yield 1/2 gpm when well was 15 ft deep and 16 gpm when well was 20 ft deep.
No. 14	15° 11' N., 96° 14' W.	Robert McElmish	400	Drl	164	6	do.	--	--	Jet	60	Well flushed with 4 ft of diesel oil. Temperature 50° F., August 1959. (a).
No. 15	15° 11' N., 96° 14' W.	Robert McElmish	260	Drl	250	6	Hudson River formation	26	2	Turbine	12	do.
No. 16	15° 11' N., 96° 14' W.	Robert McElmish	260	Drl	165	6	Stockbridge limestone	21	12	Jet	3	Temperature 50° F., August 1959.
No. 17	15° 11' N., 96° 14' W.	Robert McElmish	840	Drl	215	8 to 6	Hudson River formation	42	36	do.	27	Yield 106 ft after pumping 27 gpm for 26 hrs. Temperature 50° F., August 1959. (a).
No. 18	15° 11' N., 96° 14' W.	Robert McElmish	040	Drl	138	6	do.	15	38	do.	16	Yield 60 ft after pumping 17 gpm for 26 hrs. Temperature 50° F., August 1959. (a).
No. 19	15° 11' N., 96° 14' W.	Robert McElmish	500	Drl	186	6	do.	30	6	--	15	Yield 135 ft after pumping 15 gpm for 8 hrs.
No. 20	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	185	6	do.	15	3	Jet	10	Yield 65 ft after pumping 10 gpm for 1 hr.
No. 21	15° 11' N., 96° 14' W.	Robert McElmish	165	Drl	220	6	Stockbridge limestone	16	101	Turbine	270	Yield about 40 ft after pumping 270 gpm for 28 hrs. (a).
No. 22	15° 11' N., 96° 14' W.	Robert McElmish	370	Drl	177	6	Hudson River formation	21	67	Jet	10	Temperature 50° F., August 1959.
No. 23	15° 11' N., 96° 14' W.	Robert McElmish	170	Drl	310	8	Stockbridge limestone	12	87	Force	20	Yield 173 ft after pumping 20 gpm for 26 hrs. (a).
No. 24	15° 11' N., 96° 14' W.	Robert McElmish	340	Drl	62	6	Hudson River formation	30	23	Jet	11	Yield 15 ft after pumping 11 gpm for 3 hrs.
No. 25	15° 11' N., 96° 14' W.	Robert McElmish	460	Drl	315	6	Stockbridge limestone	35	20	do.	11	Yield 15 ft after pumping 11 gpm for 8 hrs. (a).
No. 26	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 27	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 28	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 29	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 30	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 31	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 32	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 33	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 34	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 35	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 36	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 37	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 38	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 39	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 40	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 41	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 42	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 43	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 44	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 45	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 46	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 47	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 48	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 49	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.
No. 50	15° 11' N., 96° 14' W.	Robert McElmish	570	Drl	186	6	do.	15	3	do.	--	do.

**Kramer**  
**Environmental**  
DIVISION OF  
KRAMER INDUSTRIES  
935 ALLWOOD RD  
LIFTON, NJ 07012

NEW JERSEY 201-477-  
609 AREA CODE ONLY - 800-333-  
N.Y., P.A., CT., MD., DE., - 800-333-

June 30, 1988

Mr. Aminullah Kazemi  
Gibbs & Hill, Inc.  
11 Penn Plaza  
New York, N.Y. 10001-2059

Dear Mr. Kazemi:

As per our recent telephone conversations, enclosed you will find copies of manifests of all wastes removed from the 1929 Associates' site in Poughkeepsie, N.Y. by Kramer Environmental.

Please note that the last materials were removed in May of 1987 and that no work was done by Kramer Environmental in 1988.

If you have any questions or require any additional information, please feel free to contact me.

Very truly yours,

*Robert T. Kennedy (a.n.)*  
Robert T. Kennedy  
Director of Field Operations

cc: Stan Schutzman- Lot Six Realty

Enc.  
RTK:ams

Via: Federal Express

A-9-31-38

PCB/PST

58  
Rg1  
Attw6

ST

RUN # 116  
NOPI FILE ID: C  
WORKFILE NAME:  
SAMPLE # 1

RT	AREA	TYPE	AR/HT	AREA
0.50	7743900	SEB	0.057	95.433
0.62	23765	BP	0.053	0.233
1.03	48415	PS	0.063	0.557
1.30	63129	BP	0.136	0.773
1.88	154740	PS	1.287	1.947
5.27	722997	EE	0.209	0.913

TOTAL AREA= 8114000  
MUL FACTOR= 1.0000E+00



IMAGEMAX

**THE FOLLOWING DOCUMENTS**  
**ARE PHOTOCOPIES**

**CONDITION CANT' BE IMPROVED**  
**DUE TO:**

1. OVERLAPPING DOCUMENTS
2. INFORMATION CUT OFF ON TOP, SIDES OR  
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STATE OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SOLID AND HAZARDOUS WASTE

## HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Form Approved. OMB No. 2000-0404. Expires 7-31-86

Print or type.

UNIFORM HAZARDOUS  
WASTE MANIFEST

1. Generator's US EPA No.

Manifest  
Document No.2. Page 1  
of 1Information in the shaded areas  
is not required by Federal Law.

NYD98155774702517

3. Generator's Name and Mailing Address

1929 ASSOCIATES  
P.O. BOX 308  
HOPWELL CT. N.Y.  
12532A. State Manifest Document No.  
NY AM 3502517

4. Generator's Phone

(914) 221-3700

B. Generator's ID  
ROUGHKIEPUE NY 12601

5. Transporter 1 (Company Name)

PRICE TRUCKING

6. US EPA ID Number

NYD046765574

C. State Transporters ID  
97-025

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. Transporter's Phone  
(716) 822-444

Designated Facility Name and Site Address

RADIAC RESEARCH CORP.  
261 KENT AVE.  
BROOKLYN, N.Y. 11211

10. US EPA ID Number

NYD049178296

E. State Facility's ID

F. Facility's Phone  
(718) 963-2233

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

12. Containers  
No. Type13. Total  
Quantity14. Unit  
Wt/Vol

15. Waste No.

WASTE CORROSIVE LIQUID, A.C.S. CORROSIVE MATERIAL UN1760

002 DM

00400

P

D002

WASTE POISON B, LIQUID, N.D.S. POISON B UN2810

001 DM

20200

P

D008

WASTE CORROSIVE SOLID, N.D.S. CORROSIVE MATERIAL UN1759

001 DM

00200

P

D002

WASTE OXIDIZER OXIDIZER UN1479

002 DM

00400

P

D001

16. Additional Descriptions for Materials listed Above

PERKALOG CHEMICALS, C

PERKALOG CHEMICALS, C

17. Handling Codes for Wastes Listed Above

PERKALOG CHEMICALS, CP

PERKALOG CHEMICALS, F

18. Special Handling Instructions and Additional Information

a) TECH # 4143 DRUMS C-1 &amp; A-1

b) TECH # 4143 DRUM EM-2

c) TECH # 4143 DRUM # 3-1

d) TECH # 4143 DRUMS # 5 EO-1 &amp; EO-2

19. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002 (b) of RCRA, I also certify that I have a program in place to reduce volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name

Signature

Mo. Day Year

DONALD R COURSE

Donald Course

11/10/86

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name

Signature

Mo. Day Year

JOSEPH GAGGER

Joseph Gagger

11/10/86

18. Transporter 2 (Acknowledgement of Receipt of Materials)

Printed/Typed Name

Signature

Mo. Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Mo. Day Year



STATE OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SOLID AND HAZARDOUS WASTE

HAZARDOUS WASTE MANIFEST  
P.O. Box 12820, Albany, New York 12212

A-14-3-11

Form Approved OMB No. 2000-0404 Expires 7-31-00

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD9813577470252B	Manifest Document No. 12533	2. Page 1 of 1	Information in the shaded areas is not required by Federal Law.
3. Generator's Name and Mailing Address 1929 RUSSELL ST FAIRVIEW PARK, RD Box 508 TOPONAWILL ST. NY		6. US EPA ID Number NYD046765574		A. State Manifest Document No. NY-A-350252-8	
4. Generator's Phone (914) 221-3200		5. Transporter 1 (Company Name) PRICE TRUCKING		B. Generator's ID NY-A-350252-8	
5. Transporter 2 (Company Name)		8. US EPA ID Number		C. State Transporter's ID 9A-025	
9. Designated Facility Name and Site Address RADAC RESEARCH CORP. 261 KENT AVE. BROOKLYN, N.Y. 11211		10. US EPA ID Number NYD049178296		D. Transporter's Phone (716) 822-1414	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	
a. WASTE POISON B, SOLID, N.O.S.		002 DM		4.00 P	
b. POISON B UN 2811		001 DM		200 P	
c. HAZARDOUS WASTE SOLID, N.O.S.		001 DM		200 P	
d. ORM-E NA 9189		001 DM		200 P	
e. WASTE FLAMMABLE LIQUID, N.O.S.		001 DM		200 P	
f. FLAMMABLE LIQUID UN 1993		001 DM		200 P	
g. WASTE ACID, N.O.S.		001 DM		200 P	
h. CORROSIVE MATERIAL NA 1760		001 DM		200 P	
14. Additional Descriptions for Materials Listed Above		15. Handling Codes for Wastes Listed Above		16. Special Handling Instructions and Additional Information	
a. POISON SOLID S.E.		b. PACKAGED LAB. CHEMICAL		c. TUCH # 4143 - 100um - D-1	
d. PACKAGED LAB. CHEMICAL		e. PACKAGED LAB. CHEMICAL		f. TUCH # 4143 - 100um - C-2	
g. PACKAGED LAB. CHEMICAL		h. PACKAGED LAB. CHEMICAL		i. TUCH # 4143 - 100um - C-2	
17. Transporter 1 (Acknowledgement of Receipt of Materials)		18. Transporter 2 (Acknowledgement of Receipt of Materials)		19. Discrepancy Indication Space	
Printed/Typed Name DANIEL R. COURVILLE		Printed/Typed Name JENNIFER GAJER		Signature Daniel Courville	
Signature Daniel Courville		Signature Jennifer Gajer		Mo. Day Year 11/07/86	
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Printed/Typed Name		Signature	
Printed/Typed Name		Signature		Mo. Day Year	





STATE OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SOLID AND HAZARDOUS WASTE

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Form Approved, OMB No. 2000-0404, Expires 7-31-96

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD98155774762952	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address 1929 ASSOCIATES HARLEM AVE. P.O. BOX 308 HOPKINS, N.Y. 12533		6. US EPA ID Number NYD04676557A		A. State Manifest Document No. NY-A-350255-2		
4. Generator's Phone (914) 221-3700		8. US EPA ID Number		B. Generator's ID NY-A-350255-2		
5. Transporter 1 (Company Name) FACE TRUCKING		6. US EPA ID Number		C. State Transporter's ID NY-A-350255-2		
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Phone (914) 221-4444		
9. Designated Facility Name and Site Address RADIAN RESEARCH CORP 261 KENT AVE BROOKLYN, N.Y. 11211		10. US EPA ID Number NYD049178296		E. State Transporter's ID NY-A-350255-2		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit	15. Waste No.	
a. WASTE SODIUM DICHROMATE ORM-A NA 1479		No. Type	Quantity	Unit	Waste No.	
b. WASTE NITRIC ACID, OXIDIZER UN 2031		0.01 DM	0.0200	P	D001	
c. WASTE SODIUM AZIDE POISON-B UN-1687		0.01 DM	0.0001	P	P005	
16. Additional Descriptions for Materials Listed Above		17. Handling Codes for Wastes Listed Above				
PACKAGED LAB CHEMICALS S.E. CHEMICALS		PACKAGED LAB CHEMICALS S.E. CHEMICALS				
18. Special Handling Instructions and Additional Information						
A. TCH # 4143 - (Sodium Dichromate)		C. TCH # 4148 - (Sodium Azide) - 5 gal. PAIL-B-4				
D. TCH # 4143 - EO-3 5 gal. PAIL (Nitric Acid)		TRAILER # 4-53253				
NJ PERMIT # S-8424						
19. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.						
Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002 (b) of RCRA, I also certify that I have a program in place to reduce volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.						
Printed/Typed Name DONALD R. COURSELLE		Signature Donald R. Courstelle		Mo. Day Year 11/10/86		
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Signature Reuneth Gager		Mo. Day Year 11/10/86		
18. Transporter 2 (Acknowledgement of Receipt of Materials)		Signature		Mo. Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name		Signature		Mo. Day Year		

Please print or type. (Form designed for use on elite (12 pitch) typewriter.)

Form Approved, OMB No. 2000-0404, Expires 7-31-01

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. 14111198115117417		Manifest No. 34111131		State of NJ		Manifest No. NJA 0234130	
3. Generator's Name and Mailing Address H&H Associates Fairview Ave. Poughkeepsie, NY 12601		4. Generator's Phone 914-224-5100		5. Transporter's Name and Mailing Address N/A		6. Transporter's US EPA ID Number 111111111111111111		7. Transporter's Phone (212) 306-3000	
8. Designated Facility Name and Mailing Address Maplewood Inc. 125 Factory Lane Maplewood, NJ 08846		9. Designated Facility's US EPA ID Number 111111111111111111		10. Designated Facility's Phone (212) 306-3000		11. State Facility's ID No. NJ 0234130		12. Facility's Phone (212) 306-3000	
13. US DOT Description (Product or Proper Shipping Name, Hazard Class, and ID Number) WASTE OIL, HAZ. CANNISTERS		14. Quantity (Gross Weight) 13		15. Quantity (Net Weight) 13		16. Quantity (Volume) 13		17. Waste No. 13	
18. Additional Description (e.g., Flammable, Corrosive, etc.) Flammable		19. Handling Code for Waste (e.g., F01, F02, etc.) F01		20. Handling Code for Waste (e.g., F01, F02, etc.) F01		21. Handling Code for Waste (e.g., F01, F02, etc.) F01		22. Handling Code for Waste (e.g., F01, F02, etc.) F01	
23. Special Handling Instructions None		24. Special Handling Instructions None		25. Special Handling Instructions None		26. Special Handling Instructions None		27. Special Handling Instructions None	
28. GENERATOR'S CERTIFICATION I hereby certify that the information provided on this manifest is true and accurate, and that the waste is being transported in accordance with the requirements of the Resource Conservation and Recovery Act (RCRA) and the Hazardous Waste Manifest Regulations (40 CFR 263).		29. GENERATOR'S SIGNATURE [Signature]		30. GENERATOR'S TITLE [Title]		31. GENERATOR'S DATE [Date]		32. GENERATOR'S PHONE [Phone]	
33. Transporter's Name and Mailing Address [Name]		34. Transporter's US EPA ID Number [ID]		35. Transporter's Phone [Phone]		36. Transporter's FAX [FAX]		37. Transporter's SIGNATURE [Signature]	
38. Transporter's Title [Title]		39. Transporter's DATE [Date]		40. Transporter's PHONE [Phone]		41. Transporter's FAX [FAX]		42. Transporter's SIGNATURE [Signature]	
43. Facility's Name and Mailing Address [Name]		44. Facility's US EPA ID Number [ID]		45. Facility's Phone [Phone]		46. Facility's FAX [FAX]		47. Facility's SIGNATURE [Signature]	
48. Facility's Title [Title]		49. Facility's DATE [Date]		50. Facility's PHONE [Phone]		51. Facility's FAX [FAX]		52. Facility's SIGNATURE [Signature]	



STATE OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SOLID AND HAZARDOUS WASTE

HAZARDOUS WASTE MANIFEST  
P.O. Box 12820, Albany, New York 12212

A-14-b-11

Form Approved, OMB No. 2050-0039, Expires 9-30-82

Please print or type.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA No. <b>NY2198155722710499</b>	Manifest Document No. <b>1</b>	2. Page 1 of 1	Information in the shaded areas is not required by Federal Law.
3. Generator's Name and Mailing Address <b>1129 ASSOCIATES P.O. BOX 308 HOFERWELL JCT, NY 12533</b>		A. State Manifest Document No. <b>NY A 554049 9</b>		B. Generator's ID <b>FAIRVIEW, NY</b>	
4. Generator's Phone (9 ) <b>708-888-4444</b>		C. State Transporter's ID <b>677-6238</b>		D. Transporter's Phone <b>708-888-4444</b>	
5. Transporter 1 (Company Name) <b>PRICE TRUCKING</b>		6. US EPA ID Number <b>NYD046765571</b>		E. State Transporter's ID <b>677-6238</b>	
7. Transporter 2 (Company Name)		8. US EPA ID Number		F. Transporter's Phone (1500) 45-47-47	
9. Designated Facility Name and Site Address <b>RADAC RESEARCH CORP. 261 KENT AVE BROOKLYN, N.Y. 11211</b>		10. US EPA ID Number <b>NYD049178296</b>		G. State Facility's ID <b>677-6238</b>	
		H. Facility's Phone <b>708-888-4444</b>			
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. <b>WASTE PICRIC ACID, WET WITH NOT LESS THAN 10% WATER FLAMMABLE SOLID NA 1844</b>		<b>001DM</b>	<b>25 P</b>	<b>2001</b>	
b. <b>WASTE FLAMMABLE SOLID, N.O.S. FLAMMABLE SOLID HN1325</b>		<b>001DM</b>	<b>25 P</b>	<b>2001</b>	
c. <b>WASTE POISON B LIQUID, N.O.S. POISON B HN2810</b>		<b>001DM</b>	<b>25 P</b>	<b>2030</b>	
d.					
J. Additional Descriptions for Materials listed Above <b>PACKAGED LAB CHEM - PACKAGED LAB CHEM - CALS. L.I. CALS. L.I.</b>		K. Handling Codes for Wastes Listed Above <b>a. [ ] b. [ ] c. [ ] d. [ ]</b>			
15. Special Handling Instructions and Additional Information <b>a) TECH NO. 4148 EXC-D-2, C) TECH NO. 4143 B-3 (5 GAL PAUL)</b> <b>b) TECH NO. 4143 B-2</b>		<b>* NJDEPS 8424/01304</b>			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name <b>ZONY CORNELLE</b>		Signature <b>ZONY CORNELLE / RTK</b>		Mo. Day Year <b>10 30 87</b>	
17. Transporter 1 (Acknowledgement of Receipt of Materials) Printed/Typed Name <b>Charles E. K...</b>		Signature <b>Charles E. K...</b>		Mo. Day Year <b>10 30 87</b>	
18. Transporter 2 (Acknowledgement or Receipt of Materials) Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name <b>JOHN P. V...</b>					
		Signature <b>John P. V...</b>		Mo. Day Year <b>10 30 87</b>	



**DNR**  
**MICHIGAN DEPARTMENT**  
**OF NATURAL RESOURCES**

DO NOT WRITE IN THIS SPACE  
ATT. ☐ DIS. ☐ REJ. ☐ PR ☐

Failure to file is punishable under  
section 299.548 MCL or Section 11  
Act 136, P.A. 1969

Please print or type

Form Approved OMB No. 2050-0039 Expires 5-7

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded area is not required by Federal law
3. Generator's Name and Mailing Address		1929 ASSOCIATES PO BOX 303 HAWAII, JCT. NY		A. State Manifest Document Number	MI 1061752
4. Generator's Phone (914) 221-3700		12533		B. State Generator's ID	FAIRVIEW PO BOX 47718 NY
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID	1001935-4
PERRELLI FACILITY SERVICES		NIDP00690343		D. Transporter's Phone	NY-450-71
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID	
9. Designated Facility Name and Site Address		10. US EPA ID Number		F. Transporter's Phone	
CHEM MET SERVICES 18550 ALLEN ROAD WYANDOTTE, MI 48192		MED09617631719		G. State Facility's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	I. Waste, No.
a. WASTE CHEMICAL, N.O.S.		No. Type			
DOT NON-REGULATED		21013 DM	11165 G		0118K
b. WASTE ALKALINE LIQUID, N.O.S.					
CORROSIVE MATERIAL NA 1719		21017 DF	1305 G		01002
c. HAZARDOUS WASTE LIQUID, N.O.S.					
DRI-M-E NA 9197		11 DM	1155 G		0113K
d.					
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above			
a) METAL WORKING LIQUID L		a) FUNGICIDE L.T.		a/ 1	
b) ALKALINE (N.O.H) CLEANER L.C.				b/ 1	
				c/ 1	
				d/ 1	
15. Special Handling Instructions and Additional Information		* NIDEPS 7067-206			
a) 6102 c) 6105		LIC AG: NY 450-71			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimize present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name		Signature		Date	
DONALD R. COUNSELL		Donald R. Counsell		Month Day Year	
17. Transporter 1 Acknowledgement or Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Month Day Year	
JAMES H. HENRY				Month Day Year	
18. Transporter 2 Acknowledgement or Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Month Day Year	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19					
Printed/Typed Name		Signature		Date	
JAMES HENRY		J. Henry		Month Day Year	
				Month Day Year	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN MICHIGAN AT 1-800-252-4704 OR OUT OF STATE AT 517-375-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY

## HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

A-14-9-11

Form Approved OMB No. 2000-0134 Expires 7/98

UNIFORM HAZARDOUS  
WASTE MANIFEST

1. Generator's US EPA No. NY10713155774741155		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded area is not required by Federal Law.	
3. Generator's Name and Mailing Address 1129 ASSOCIATES P.O. Box 308 Hempstead, N.Y. 11553				A. State Manifest Document No. NY A 374165 8			
4. Generator's Phone ( ) 115533				B. Generator's ID POLYMERIZATION			
5. Transporter 1 (Company Name) PERRY-TI FREIGHT SERVICES				C. State Transporter's ID POLYMERIZATION			
6. US EPA ID Number MTD0000692343				D. Transporter's Phone 908 785-4444			
7. Transporter 2 (Company Name)				E. State Transporter's ID			
8. US EPA ID Number				F. Transporter's Phone ( )			
9. Designated Facility Name and Site Address RIGONIC RESIN CORP. 261 KENT AVENUE BRIDGEHAM, N.Y. 11211				G. State Facility's ID 11211 NY0049175296			
10. US EPA ID Number				H. Facility's Phone (718) 963-2233			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit	
a. WASTE CHEMICAL, N.O.S.		No. Type		Quantity		Waste No.	
b. DOT UNCLASSIFIED		223 DM		4400 P		11211	
c.							
d.							
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes listed Above					
a. SLOTTED		b. 4					
c.		d.					
b.		c.					
15. Special Handling Instructions and Additional Information A 1102		* NIDIPS 7067/200					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national provisions, regulations and state laws and regulations.							
Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 302 of RCRA, I also certify that I have a program in place to reduce volume and toxicity of waste generated to the degree I have determined to be economically practicable, selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.							
Printed/Typed Name Dorel R. Rios				Signature Dorel R. Rios			
17. Transporter 1 (Acknowledgement of Receipt of Materials):				Mo. Day			
Printed/Typed Name Dorel R. Rios				Signature Dorel R. Rios			
18. Transporter 2 (Acknowledgement of Receipt of Materials):				Mo. Day			
Printed/Typed Name				Signature			
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19							
Printed/Typed Name Dorel R. Rios				Signature Dorel R. Rios			



HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Form Approved OMB No. 2000-0001 Expires 6-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

3. Generator's Name and Mailing Address  
1999 ASSOCIATE  
RD Box 208  
4. Generator's Phone  
910 221-3720  
5. Transporter 1 (Company Name)  
FAYHOLD CARTAGE INC  
6. US EPA ID Number  
NY00000000000000000000  
7. Transporter 2 (Company Name)  
FAYHOLD CARTAGE INC  
8. US EPA ID Number  
NY00000000000000000000  
9. Designated Facility Name and Site Address  
RADIO KISSELECH CORP  
261 KOT AVENUE  
BROOKLYN, NY 11211  
NY00000000000000000000

11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)	12. Containers		13. Total Quantity	14. Unit
	No.	Type		
a. WASTE ACID LIQUID, N.O.S.	1	DM	25	P
b. WASTE GLASS, N.O.S.	1	DM	25	P
c. WASTE HYDROGEN PEROXIDE SOLUTION 50%	1	DM	25	P
d. WASTE HYDROGEN PEROXIDE SOLUTION 50%	1	DM	25	P

15. Special Handling Instructions and Additional Information  
5711 AL-2-4-22 (SMP-AL) 5711 AL-2-4-22 (SMP-AL)  
5711 LL-2-4-22 (SMP-AL) 5711 LL-2-4-22 (SMP-AL)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

Printed/Typed Name: DON COUSILL Signature: DON COUSILL (SMP-AL) Mo: 10 Day: 15 Year: 1999

17. Transporter 1 (Acknowledgement of Receipt of Materials):  
Printed/Typed Name: Signature: Mo: Day: Year:

18. Transporter 2 (Acknowledgement of Receipt of Materials):  
Printed/Typed Name: Signature: Mo: Day: Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 15:  
Printed/Typed Name: GLENN TRAVITT Signature: GLENN TRAVITT Mo: Day: Year:



DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SOLID AND HAZARDOUS WASTE  
**HAZARDOUS WASTE MANIFEST**  
P.O. Box 12820, Albany, New York 12212

A-1A-11-11

Please print or type.

Form Approved OMB No. 2050-0039 Expires 9-57

In case of emergency or spill immediately call the National Response Center (800) 424-9302 and the N.Y. Department of Transportation (518) 457-7362.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded area is not required by Federal law.
3. Generator's Name and Mailing Address 1724 ASSOCIATES ROCKWELL JUNCTION, N.Y.		11079155774791564		A. State Manifest Document No. 11079155774791564	
4. Generator's Phone (914) 221-3720		12533		B. Generator's ID	
5. Transporter 1 (Company Name) FRANCIS FREIGHT SERVICE		6. US EPA ID Number 11079155774791564		C. State Transporter's ID	
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Phone (518) 935-1111	
9. Designated Facility Name and Site Address RADIOAC RESEARCH CORP 261 KENT AVENUE BROOKLYN, N.Y.		10. US EPA ID Number 11079155774791564		E. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	
a. WASTE SOLUTION CYANIDE, SOLID, PG 11.54		No. Type		Unit	
b. FUMES B		11079155774791564		11079155774791564	
c.					
d.					
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above			
a. RADIOACTIVE CYANIDE		b. RADIOACTIVE CYANIDE			
b. RADIOACTIVE CYANIDE		c. RADIOACTIVE CYANIDE			
15. Special Handling Instructions and additional information 2511-BS-1-4-23 (1/1/11)		2511-BS-1-4-23 (1/1/11)		2511-BS-1-4-23 (1/1/11)	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, classification, packing, marking and labeling, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.		17. Transporter 1 (Acknowledgement of Receipt of Materials)		18. Transporter 2 (Acknowledgement of Receipt of Materials)	
Printed/Typed Name David Caruso		Signature David Caruso		Mo. Day	
Printed/Typed Name David Caruso		Signature David Caruso		Mo. Day	
Printed/Typed Name David Caruso		Signature David Caruso		Mo. Day	
19. Discrepancy Indication Space		20. Facility Owner or Operator, Certification of receipt of hazardous materials covered by this manifest except as noted in item 19			
Printed/Typed Name Ed Rutter		Signature Ed Rutter		Mo. Day	





END  
POOR  
QUALITY  
DOCUMENTS

APPENDIX B

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Schatz Plant

I.D. Number: 314074

Date: 6/17/87

Person Contacted: Donn Courselle

Title: Agent

Affiliation: Robert - Mark Managing Agents

Address & Phone No.: Robert - Mark Managing Agents  
P.O. Box 308  
Hopewell Jt., NY 12533  
914-221-3700

Type of Contact: In person

Person(s) Making Contact: L. Radko

Interview Summary:

The Schatz Plant went out of business in 1981.

In the past, approximately 30 55-gallon drums containing detergent, alkaloids, fungicides and chemical solvents were located in front of Henry Kettle Blacktopping, by the fence along the ball park. The drums were put into containers and shipped out. In the covered alley, there were approximately 60 55-gallon drums which contained oil and water. Their contents were pumped out and later the empty drums were removed. The removal of the drums took place around May 1987.

At present, some of the drums remain in the covered alley. This is because there was no more room on the truck which removed the drums or the drums contained small amounts of fluid, probably rainwater. The haulers would only take empty drums.

The building in question had been a heat treatment equipment room. The liquid in the pits, in the building, have been tested and metal traces and PCB's were found. Each pit will be tested individually. The NYS DEC has test results in Albany and New Paltz. The testing included the water, oil and sludge in the pits. Some of the pits had been filled in with bricks and concrete as requested by the Fire Department. The DEC had this stopped. This building will be secured in the near future.

B-1-2-14

Winter delayed all clean up work at the site. Bob Kennedy of Kramer Environmental in Clifton, NJ coordinated the clean up activities.

Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to Gibbs & Hill, Inc. interviewers, or as I have revised below, is an accurate account.

Revisions (please write in corrections to above transcript):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature:

*Donald M. Muzelle*

Date:

*1-28-88*

B-1-3-14

Telephone Conversation Record

Date: 8/12/87

Time: 3:40

Call by: Richard Barbour of Gibbs & Hill, Inc.  
(Name) (Company)

Answer by: Jerard S. Hankin of Hankin, Hanig, Stall & Shafram  
(Name) (Company)  
(914) 471-7177

Contract No: 5019-209

Subject discussed: Industrial Wells (Du 106, 498 and 633)  
at Former Schatz Plant Site

SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

R. Barbour called Jerard S. Hankin of Hankin, Hanig, Stall & Shafram, Attorneys for Schatz 1929 Corp.

R. Barbour informed Mr. Hankin that published literature (GW-48) identified 3 industrial wells at the former Schatz Plant site. R. Barbour asked if these wells, installed in the late 40's early 50's were still in use. Mr. Hankin stated that they are no longer in use and that the present facility is on public water supply.

RBar:aaf

Telephone Conversation Record

B-1-4-14

Date: 6/7/88

Time: 9:25 AM

Call by: Aminullah Kazemi of Gibbs & Hill, Inc.  
(Name) (Company)

Answer by: Robert Kennedy of Kramer Environmental  
(Name) (Company)  
(201) 471-9500

Contract No: 5019-209

Subject discussed: Any information including analytical data  
on Schatz Plant

SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

Mr. Robert Kennedy responded as follows:

"We would like to receive a letter from Gibbs & Hill, Inc. and an authorization letter from NYSDEC to that effective to release the pertaining information about the Schatz Plant".

**GIBBS & HILL, INC.**

B-1-5-14

11 Penn Plaza  
New York, New York 10001-2059  
212 216-  
Telex. 177199  
A Dravo Company

June 7, 1988

Mr. Robert Kennedy  
Manager of Technical Services  
Kramer Environmental  
Division of Kramer Industries  
935 Allwood Road  
Clifton, N.J. 07012

Re: NYSDEC Inactive Hazardous Waste Site Investigation  
(Site No. 314074)

Dear Mr. Kennedy:

Gibbs & Hill is under contract with the New York State Department of Environmental Conservation, for the purpose of performing a Phase I Investigation at the Schatz Plant. A copy of our authorization is attached.

We hope you can provide us with the following information which will satisfy DEC comments made on the Phase I Investigation draft report.

1. The results of analytical data performed at Schatz Plant, including soil, groundwater and surface water analyses.
2. The clean-up process including the number of chemical and oil drums removed in accordance with EPA requirements and their final disposal destination.
3. All other information in your view seemed to be crucial for Phase I Investigation.

Dravo

**GIBBS & HILL, INC.**

B-1-6-14

Mr. Robert Kennedy  
Manager of Technical Services  
June 7, 1988  
Page 2

We are required to incorporate these additional data in the final report before the submission date of June 15, 1988.

We appreciate your prompt response in writing and should you have any questions or concerns, please contact me at (212) 216-6108.

Yours truly,

GIBBS & HILL, INC.

*Aminullah Kazemi*

Aminullah Kazemi  
Environmental Engineer

AK:aaf  
Attachment

cc: Lawrence J. Alden  
N.Y. State Department of Environmental Conservation  
Division of Hazardous Waste Remediation  
50 Wolf Road  
Albany, N.Y. 12233



Telephone Conversation Record

B-1-7-14

Date: 6/9/88

Time: 9:35

Call by: Aminullah Kazemi of Gibbs & Hill, Inc.  
(Name) (Company)

Answer by: Alison Silkworth of Dutchess County Environmental  
(Name) (Company) Management Facility  
(914) 677-3488

Contract No: 5019-209 (Schatz Plant)

Subject discussed: Any information available in EMF File  
about the Schatz Plant

SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

"No information is available about Schatz Plant in our office". She suggested to call NYSDEC Region III.

Telephone Conversation Record

B-1-8-14

Date: 6/9/88

Time: 9:35 AM

Call by: Aminullah Kazemi of Gibbs & Hill, Inc.  
(Name) (Company)

Answer by: William Buskey of RCRA Inspector of  
(Name) NYSDEC Region III  
(Company)  
(914) 255-5453

Contract No: 5019-209 (Schatz Plant)

Subject discussed: Information and analytical data  
available about Schatz Plant

SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

Mr. William Buskey responded as follows:

- All oil and chemical drums were removed under the witness of RCRA inspector to his satisfaction.
- The manifest is available in central file in Albany.
- The plant was properly boarded up and provided with doors and locks. No access is available to the public.
- No split sampling has been performed at each individual pit. The new owner refused to do that because of the high cost associated with sampling process and its analysis.
- In early May of 1988, one of the pits was pumped out and cleaned appropriately to the satisfaction of RCRA inspector.
- No soil, groundwater, and surface water analysis were performed as yet. They will be done under separate program and jurisdiction in the future.

Telephone Conversation Record

B-1-9-14

Date: 6/10/88

Time: 10:30 AM

Call by: Aminullah Kazemi of Gibbs & Hill, Inc.  
(Name) (Company)

Answer by: Geen Sabo of Environmental Protection Agency  
(Name) (EPA) of New York  
(Company)  
(212) 264-8356

Contract No: 5019-209 (Schatz Plant)

Subject discussed: Obtaining the EPA Identification Number  
of Schatz Plant

SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

Ms. Sabo responded as follows:

The EPA Identification of Schatz Plant is NYD 982531246.

**GIBBS & HILL, INC.**

8-1-10-14

11 Penn Plaza  
New York, New York 10001-2059  
212 216-6108  
Telex 177199

A Dravo Company

June 20, 1988

Mr. John Ozard  
Lands & Waters  
Wildlife Resources Center  
Delmar, N.Y. 12054

Re: NYSDEC Inactive Hazardous Waste Site Investigation  
(Site No. 314074)

Dear Mr. Ozard:

Gibbs & Hill is under contract with the New York State Department of Environmental Conservation, for the purpose of performing a Phase I Investigation at the Schatz Plant located in Dutchess County, 70 Fairview Avenue, Poughkeepsie, N.Y. 12601.

Attached please find a 8 1/2"x11" copy of U.S.G.S Poughkeepsie quadrangle which indicates the location of the Schatz Plant. A copy of our authorization is also enclosed.

Please provide us the following information:

1. Distance to critical habitat of an endangered species on national wildlife refuge if one mile or less of the site.
2. Distance to 5-acre (minimum) fresh-water wetland, if one mile or less of the site.

We appreciate your prompt response by phone or in writing. Should you have any questions or concerns, please contact me at (212) 216-6108.

Yours truly,

GIBBS & HILL, INC.

*Aminullah Kazemi*

Aminullah Kazemi  
Environmental Engineer

AK:aaf  
Attachment

**Dravo**

Telephone Conversation Record

B-1-11-14

Date: 6/24/88

Time: 4:35 PM

Call by: Aminullah Kazemi of Gibbs & Hill, Inc.  
(Name) (Company)

Answer by: Robert Kennedy of Kramer Environmental  
(Name) (Company)  
(201) 471-9500

Contract No: 5019-209 (Schatz Plant)

Subject discussed: Soil, surface water and ground water  
analyses

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SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

Mr. Kennedy responded in reference to Gibbs & Hill, Inc. letter of June 7, 1988 sent to Kramer Environmental as follows:

- No soil, surface and ground water analyses were performed at the Schatz Plant.
- No cleanup of oil and chemical pits was performed by Kramer Environmental.
- Mr. Kennedy will send the manifests of chemical drums removal.

Telephone Conversation Record

B-1-12-14

Date: 6/27/88

Time: 11:05 AM

Call by: Aminullah Kazemi of Gibbs & Hill, Inc.  
(Name) (Company)

Answer by: William Buskey of RCRA Inspector of  
(Name) NYSDEC Region III  
(Company)  
(914) 255-5453

Contract No: 5019-209 (Schatz Plant)

Subject discussed: Obtaining additional information  
about Schatz Plant

SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

Mr. Buskey responded as follows in reference to our inquiries:

- All chemicals and oil drums were removed.
- The pits have no linings. They are made of concrete with various configuration.
- No size and dimension of the pits are available.
- No cracks were noticed in one of the pits pumped out during the early May of 1988. However, due to relatively porous nature of concrete, there is a possibility of oil or chemical leakage into the underlaying soil and ground water.
- No sprinkler system is available at the abandoned Schatz Plant in case of a fire eruption.

Telephone Conversation Record

B-1-13-14  
Date 6/30/88

Time 11:45

Call by: Aminullah Kazemi of Gibbs & Hill, Inc.  
Name Company

Answer by: Norman Benson of Soil & Water Conservation District  
Name Company  
(914) 677-3194

Contract No: 5019-209 (Schatz Plant)

Subject discussed: Land irrigated by supply wells or  
surface water within 3-mile radius of Schatz Plant

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SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

Mr. Benson responded that there is no farmland irrigated by ground water or surface water within 3-mile radius of the Schatz Plant. Most of the surface waters within the area are used for recreation.

Telephone Conversation Record

B-1-14-14

Date: 6/30/88

Time: 11:45 AM

Call by: Aminullah Kazemi of Gibbs & Hill, Inc.  
(Name) (Company)

Answer by: Edward Fahrenkopf of NYS Department of Health  
(Name) (518) 458-6310 (Company)

Contract No: 5019-209 (Schatz Plant)

Subject discussed: Depths and surface dimensions of  
fourteen (14) pits at the Schatz Plant

SUMMARY OF DISCUSSION, DECISIONS AND COMMITMENTS.

The dimensions of the pits are as follows:

- Depths of the pits are not known and the following pits are located in building No. 1

Length	Width
20'	10'
18'	10'
40'	20'
10'	8'
20'	8'
12'	8'
20'	10'
22'	10'
4'	2'

Pit 20 feet by 21 feet with 5,000 gallons chemical is located in another building.  
Average depth is assumed to be 4 feet



APPENDIX C

REF. C-1-1-2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SOLID AND HAZARDOUS WASTE  
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

CLASSIFICATION CODE: 2      REGION: 3      SITE CODE: 314074  
NAME OF SITE: Schatz Plant      EPA ID: NYD98253124  
STREET ADDRESS 70 Fairview Ave.  
TOWN/CITY: Poughkeepsie      COUNTY: Dutchess      ZIP: 12601

SITE TYPE: Open Dump\_\_\_ Structure x Lagoon\_\_\_ Landfill\_\_\_ Treatment Pond\_\_\_  
ESTIMATED SIZE: Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: 1929 Associates  
CURRENT OWNER ADDRESS.: 319 Main Mall, Poughkeepsie, NY 12602  
OWNER(S) DURING USE...: Schatz Federal Bearing Company  
OPERATOR DURING USE....: Not applicable  
OPERATOR ADDRESS.....:  
PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1910 To 1981

SITE DESCRIPTION:

Part of this property is occupied by a Rehabilitation Center and Acme Corporation. Other structures were sold to Pleasant Valley Finishing Company. There were more than 100 unmarked and unlabeled drums on the property. The owner tested all the drums and pumped out 60-80 drums containing oil and water. The left-over drums were found to contain detergents, alkaloids, fungicides, and chemical solvents. There are several large pits (below floor grade). Some of the pits contain rust colored liquid with an oil sheen, and one of the pits has transformers in it. 14 drums of hazardous waste were removed from the site in Nov. of 1986. NYSDEC Region III in response to Gibbs & Hill recent inquiries about Schatz Plant revealed that all chemical and oil drums were removed by the owner under the supervision of RCRA Inspector and the content of one of the pits was also pumped out. They also informed that the plant was provided with wooden enclosure all around secured with doors and locks. A Remedial Investigation and Feasibility Study (RI/FS) is recommended.

RECOMMEND:

HAZARDOUS WASTE DISPOSED: Confirmed\_\_\_ Suspected x  
TYPE QUANTITY (units)

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Detergents, Alkaloids, Fungicides, Chemical      Unknown  
Solvents

## ANALYTICAL DATA AVAILABLE:

Air\_\_\_ Surface Water\_\_\_ Groundwater\_\_\_ Sediment\_\_\_ None x

## CONTRAVENTION OF STANDARDS: Not determined

Groundwater\_\_\_ Drinking Water\_\_\_ Surface Water\_\_\_ Air\_\_\_

LEGAL ACTION: None

TYPE...:

State\_\_\_

Federal\_\_\_

STATUS:

Progress\_\_\_

Order Signed\_\_\_

REMEDIAL ACTION: All drums full of oil and chemicals were removed.

The plant was securely boarded up.

Proposed\_\_\_ Under design\_\_\_ In Progress\_\_\_ Completed\_\_\_

NATURE OF ACTION: None

## GEOTECHNICAL INFORMATION:

SOIL TYPE: Sand and gravel

GROUNDWATER DEPTH: 26 feet

## ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

## ASSESSMENT OF HEALTH PROBLEMS:

Medium	Contaminants Available	Migration Potential	Potentially Exposed Population	Need for Investigation
Air	Likely	Likely	-	Yes
Surface Soil	Likely	Very Likely	Yes	Yes
Groundwater	Possible	Possible	Yes	Yes
Surface Water				

Health Department Site Inspection Date"

MUNICIPAL WASTE ID:

ICS ID:

SPDES ID: