ENGINEERING INVESTGATIONS AT INACTIVE HAZARDOUS

WASTE SITES

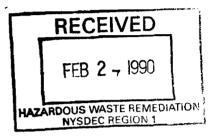
PHASE I INVESTIGATION

New York Pyrotechnics Product Company, Inc.

Site No. 152116

Bellport, Suffolk County

September, 1989







New York State Department of Environmental Conservation 50 WOLF ROAD, ALBANY, NEW YORK 12233 Thomas C. Jorling, Commissioner

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

Prepared by:
YEC, INC.
UNDER CONTRACT TO
LAWLER, MATUSKY & SKELLY ENGINEERS

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS

New York Pyrotechnics Product Company, Inc. Bellport, Suffolk County NYSDEC I.D. No. 152116

Prepared for

DIVISION OF HAZARDOUS WASTE REMEDIATION
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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September 1989

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1. EXECUTIVE SUMMARY

The New York Pyrotechnics Product Company, Inc. commonly known as Grucci Fireworks Company (NYSDEC I.D. # 152116) is located on Association Road, Bellport, Suffolk County, New York (Figures 1-1 and 1-2). The size of the site is approximately 13 acres and is presently owned by Concetta and Felix Grucci, Jr.. The site was originally woodland, bought by Felix Grucci, Sr. in 1926 which he cleared and erected buildings necessary for the manufacture of pyrotechnics. Grucci Fireworks Company operated the facility from 1926 to 1983. The manufacturing of fireworks is a very simple process in which small batches of raw chemicals are blended together in powdered form and water is added to make a dough which is then molded into cubes, stars or pellets. are then inserted into aerial shells. Chemicals such as Paris Green, Red Arsenic, White Arsenic, Red Lead, Barium Nitrate and Barium Chlorate are used to produce colored flames.

On the 26th of November, 1983, an explosion took place at the site and most of the chemicals that were stored on the site went up with explosion, however some chemicals remained and scattered throughout the site. Two of the family members were killed in the incident. Following the explosion, Police Emergency Services Bomb Squad removed only dangerous explosive material which was transported to a Westhampton Air Force base and detonated (Appendix C, Ref.2). On Sunday, November 27, the bomb

SITE COORDINATES: Longitude: 70°56' 30" Latitude: 40°45' 30" •Water Tank .POWFx :--1. POWFX PFLA Playground ੋਹ Oaklawn L Hampton Ave North Bullport german. PRODUCTS COMPANY PFOLE ESBBN EZFLM

BELLPORT QUADRANGLE

FIGURE 1.1

NEW YORK PYROTECHNIC PRODUCTS COMPANY BELLPORT, NEW YORK.

SITE LOCATION MAP

EIOWLX

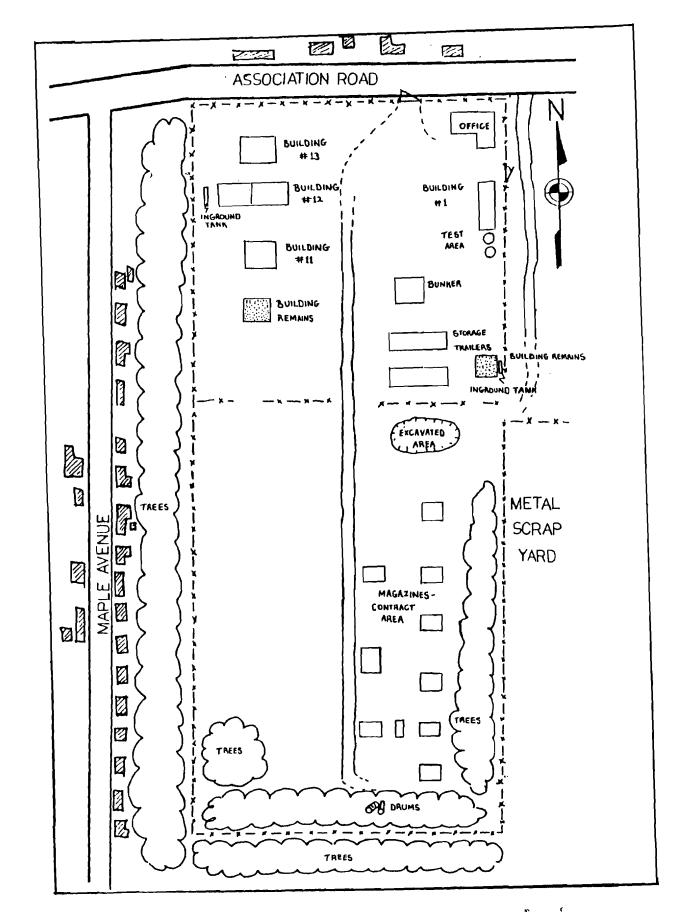


FIGURE 1.2

NEW YORK PYROTECHNIC PRODUCTS COMPANY BELLPORT, NEW YORK.

SITE MAP

squad contained 17 fifty-five gallon drums of star powder, an explosive. Trenches were dug and the material was burned on site (Appendix C, Ref.2). During the period of November 28 to November 30, Marine Pollution Control contained 20 fifty-five gallon drums of scattered and spilled dry chemicals which remained on the site. Salvageable barrels of metal powder were segregated and housed temporarily in building #1 on the site, while oxidizers were housed in building #11 (Appendix C, Ref.3). Thirty cubic yards of soil from the area of the chemical storage trailer were excavated (Appendix C, Ref.3) along with a 40'x 40' x 6'' area of soil shown in Figure 1-2 (labeled as excavated area) (Appendix C, Ref.6). The Suffolk County Department of Health Services began what they considered to be a chemical cleanup of the site, and removed, packaged, transported and disposed of in a secure landfill, barium and arsenic compounds that were found on the site. The Suffolk County Department of Health remained on the site until all the chemicals that were mixed with the soil were removed from the site (Appendix C, Ref.11) New York State Department of Environmental Conservation was also involved in the cleanup as was the Town of Brookhaven Department of Environmental Protection (Appendix C, Ref.5).

Toward the rear of the property, a trailer truck body had been used as a chemical storage shed. During the explosion, the trailer was destroyed and the chemicals were released to the ground. Samples taken from these piles of ash residue by the Suffolk County Department of Health Services indicated arsenic

barium concentrations up to 480 ppm and 56,000 and respectively. Unfortunately, metal scavengers worked over site spreading the ash residues over the 40' x 40' area thereby preventing these residues to be scraped up separately. environmental agencies involved decided as a measure of precaution to remove 6" of soil from the 40' x 40' area. soils (approximately 30 cu.yd) mixed with chemicals were finally removed and sent to a secure landfill in Buffalo. Although the Chief Fire Marshal has indicated in his letter (Ref.18) that various containers of chemicals had been packed by direction of NYSDEC and left on site, inspection by YEC, Inc. revealed no indication of same.

According to New York Pyrotechnics Company, no chemicals have been buried on the site. Since the manufacture of fireworks is a dry assembly operation, toxic discharges are not an inherent part of the process.

A preliminary application of the Hazard Ranking System (HRS) was completed to quantify risks associated with the site. A detailed environmental site assessment to fully evaluate the site was not conducted. A preliminary HRS score was completed on the basis of the available data. It should be noted that without a full environmental assessment, an unrealistically low HRS score may result.

Under the HRS, three numerical scores are computed to express

the site's relative risk or damage to the population and the environment. The three scores are described below:

- S_M reflects the potential for harm to human or the environment from migration of a hazardous substance away from the facility via groundwater, surface water, or air. It is a composite of separate scores for each of the three routes (S_{gw} = groundwater route score, S_{sw} = surface water route score, and S_a = air route score).
- $S_{\overline{FE}}$ reflects the potential for harm from substances that can explode or cause fires.
- S_{DC} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The preliminary HRS score was:

$$S_{M} = 30.98 (S_{gW} = 53.59; S_{sW} = 0; S_{a} = 0)$$

 $S_{FE} = Not Scored$
 $S_{DC} = 50.0$

There is a lack of on-site chemical data for the New York Pyrotechnics site. Additional soil sampling is required. Based on the results of the soil sampling, determinations should be made with regard to groundwater sampling.

2. PURPOSE

Under contract to Lawler, Matusky and Skelly Engineers, which is in turn under contract to the New York State Department of Environmental Conservation (NYSDEC) Superfund Program, YEC, Inc. conducted this Phase I investigation at the New York Pyrotechnics Product Company. The purpose of this investigation was to provide a preliminary evaluation of the potential hazardous waste presence at the site, to estimate the potential pollutant migration pathways leading off site, and to determine natural resources or extent of the human population that might be affected by the pollutants. The evaluation includes preparation of a narrative site description, initial characterization of the hazardous substances on site, and calculation of a preliminary HRS score. This assessment will be used to determine what additional actions, if any, should be conducted at this site.

3. SCOPE OF WORK

The Phase I effort involved the following tasks:

- A review of available information from state, county,
 municipal, and federal files;
- Interviews with individuals knowledgeable about the site; and
- Physical inspection of the site on December 16, 1989 that included review of USGS 7.5-minute topographic maps. No samples were collected, although real time air monitoring was performed during the site inspection using an HNu photoionization organic vapor detector.

Photographs were taken during the site inspection and are included in Appendix A. All observations were recorded in a field log book and are reported in the United States Environmental Protection Agency (USEPA) Site Inspection Report form 2070-13 presented in Section 5.5 of this report.

Table 3-1 lists the information sources contacted for the Phase I investigation.

Table 3-1

SOURCES CONTACTED FOR THE NYSDEC PHASE I

INVESTIGATION AT THE NEW YORK PYROTECHNICS

PRODUCT COMPANY

AGENCIES CONTACTED

U.S. Environmental Protection Agency, Region II 26 Federal Plaza, Room 900 New York, New York 10278

(212) 264 6696

Contact: Ben Conetta

Date: 9/6/88

Information Gathered: No Files/Information

New York State Department of Environmental Conservation

Division of Hazardous Waste Remediation

50 Wolf Road

Albany, New York 12233-0001

(518) 457 0639

Contact: Mike Komoroske

Date: 8/8/88

Information Gathered: File search for the site.

New York State Department of Environmental Conservation

Region 1

Division of Solid Waste

SUNY Campus - Building 40 Stony Brook, New York 11794

(516) 751 7900

Contact: Anthony Candela

Date: 8/25/88

Information Gathered: File Search for the Site.

Suffolk County Soil & Water Conservation District

164 Old Country Road

Peconic Plaza

Riverhead, New York 11901

(516) 727 2315

Contact: Stanley Pauzer

Date: 8/1/88

Information Gathered: Soil Survey of Suffolk County,

New York.

Suffolk County Department of Health Services Bureau of Drinking Water 225 Rabro Drive East Hauppauge, NY 11788 (516) 348 2895

Contact: Martin Trent Date: 9/23/88

Information Gathered: Water Analysis of Private Wells.

Suffolk County Department of Health Services Hazardous Materials Management 15 Horseblock Place Farmingville, NY 11738 (516) 451 4647

Contact: Otto Reneberg Date: 11/28/88

Information Gathered: File Search for the Site.

Long Island Regional Planning Board H.Lee Dennison Office Building Veterans Memorial Highway Hauppauge, New York 11787 (516) 360 5191

Contact: Roy Fedelem Date: 9/26/88

Information Gathered: Population Estimates within 3-mile Radius of the Site.

Suffolk County Water Authority Oakdale Long Island, NY 11769 (516) 589 5200 Contact: E.J. Rosavitch, P.E.

Date: 10/19/88

Information Gathered: Population served by Suffolk County Water Authority Wells within 3-mile Radius of the Site.

Chief Fire Marshal Division of Fire Prevention Town of Brookhaven 3233 Route 112 Medford, NY 11763 (516) 451 6262

Contact: Mr. Joseph F. Sauerwein

Date: 11/18/88

Information Gathered: The site was not declared as a threat from fire or explosion.

Swan Lake Water Corporation 600 Old Country Road Garden City, NY 11530 (516) 228 8608

Contact: Stanley Beck Date: 10/19/88

Information Gathered: Population served by Swan Lake Water Cooperation.

New York State Department of Environmental Conservation Region 1 SUNY Campus - Building 40 $\,$

SUNY Campus - Building 40 Stony Brook, New York 11794 (516) 751 7900

Contact: Michael Scheibel

Date: 10/19/88

Information Gathered: Critical Habitat of Endangered Species and Plant Species.

Cornell Cooperative Extension - Suffolk County 246 Griffing Avenue Riverhead, NY 11901 (516) 727 7850

Contact: William J. Sanok

Date: 11/1/88

Information Gathered: Farmland/Agricultural Land and Surface Water Bodies Information.

New York State Department of Environmental Conservation Region 1

SUNY Campus - Building 40 Stony Brook, New York 11794

(516) 751 7900

Contact: Martin E. Shea

Date: 11/4/88

Information Gathered: Fresh Water Wetlands within 1-mile Radius.

New York State Department of Health Nelson A. Rockefeller Empire State Plaza Corning Tower Building Albany, NY 12237 (518) 473 4637

Contact: James Covey, P.E.

Date: 9/15/88

Information Gathered: Community Water Supply Atlas.

INTERVIEWS

Contact: James Pim

Address: Suffolk County Department of Health Services

15 Horseblock Place Farmingville, NY 11738

(516) 451 4647

Date: 11/28/88

Information Gathered: Site History/Location, Explosion,

and Contaminated Soil Cleanup.

Contact: Felix Grucci, Jr.

Address: Fireworks by Grucci, Inc.

One Grucci Lane Brookhaven, NY 11719

(516) 286 0088

Date: 12/16/88

Information Gathered: Site History

Contact: Kevin J. Phillips, Ph.D., P.E.

Address: Principal

Fanning, Phillips and Molnar Engineers

909 Marconi Avenue Ronkonkoma, NY 11779

(516) 737 6200

Date: 12/16/88

Information Gathered: Site Information

Contact: Mostafa M. Elsehamy

Address: Geohydrologist

Fanning, Phillips and Molnar Engineers

909 Marconi Avenue Ronkonkoma, NY 11779

(516) 737 6200

Date: 12/16/88

Information Gathered: Site Information

4. SITE ASSESSMENT

4.1 SITE HISTORY

The New York Pyrotechnics Product Company, Inc., commonly known as the Grucci Fireworks Company operated a world-renowned fireworks manufacturing facility from 1926 to 1983 on Association Road in Bellport, New York. The original factory was less than a quarter of an acre of woodland purchased by Felix Grucci, Sr. in 1926 from Suffolk County. The current 13 acre plot was aquired in 30 transactions between 1930 and 1977 (Appenxix C, Ref.1). The facility was operated from 1926 to 1983 by the Grucci family.

The manufacturing of fireworks is a very simple process in which small batches of raw chemicals are blended together in powdered form, water added and made into a dough which is then moulded into cubes, stars or pellets. These are then inserted into aerial shells (Ref.3). Both the products and raw materials were housed in numerous storage trailers or bunkers onsite (Appendix C, Ref. 2). Chemicals including Paris Green, Red Arsenic, White Arsenic, Red Lead, Barium Nitrate and Barium Chlorate were used to produce the colored flames. According to New York Pyrotechnics Company, no chemicals have been buried on the site. Since the manufacture of fireworks is a dry assembly operation, toxic discharges are not an inherent part of the process.

On the 26th of November 1983, an explosion took place at the site and most of the chemicals that were stored on the site went up in the explosion. The explosion killed two workers and leveled several buildings and damaged approximately 165 homes in the immediate area (Appendix C, Ref. 1, 3). The Suffolk County Services Department (SCDHS), Suffolk County Police Health Services Squad, New York State Department Emergency Environmental Conservation (NYSDEC), the Town of Brookhaven environmental and fire personnel and Marine Pollution Control responded to the explosion and were involved in the subsequent cleanup (Appendix C, Ref. 2).

On November 27, the police bomb squad returned to the site and contained 17 - 55 gallon drums of star powder. Trenches were dug and the dangerously explosive material burned. The ruptured containers and spilled dry chemicals which remained scattered throughout the site after the explosion were contained in 20 - 55 gallon drums by Marine Pollution Control and removed to a secure landfill in Buffalo (Appendix C, Ref. 2, 3, 4, and 5).

Approximately 5 - 55 gallon steel drums of barium and arsenic containing compounds were housed in a storage trailer which was blown apart and completely burned during the explosion. The chemicals were burned and melted together leaving small piles of ash residue underneath the wreckage of the trailer. Samples were taken from each of these ash residue piles by the Suffolk County Department of Health Services (SCDHS) with the results of

analysis indicating arsenic and barium concentrations up to 480 ppm and 56,000 ppm respectively (appendix C, Ref. 6). Unfortunately, metal scavengers worked over the site spreading the ash residues over the 40' X 40' area thereby preventing these residues to be scraped up separately. The upper six inches of soil (approximately 30 cu.yd) mixed with chemicals was excavated and sent to a secure landfill in Buffalo. Finally, the entire site was scraped free of all rubble, and the top layer of soil removed to eliminate any additional areas of possible minor contamination.

4.2 SITE TOPOGRAPHY

The site is located about 0.5 mile south of the Long Island rail road tracks within the town of Bellport, New York. Site elevation is 40 feet above mean sea level (MSL) as shown on USGS 7.5-minute Quadrangle (Ref. 14). The area is in 0 - 3% slope. Drainage across the study area appears to be toward the south - southeast direction and ultimately to Bellport Bay. The surface water directly east of the site is Beaver Dam Creek which runs through the village of Brookhaven to the bay to become tidal wetlands (Ref. 10).

4.2.1 <u>Soils</u>

The soil type at New York Pyrotechnics Product Company, Inc. site is classified as Riverhead Sandy Loam, 0 to 3 percent slopes

(Ref. 5). The Riverhead series consists of deep, well drained, moderately coarse textured soils that formed in a mantle of sandy loam or fine sandy loam over thick layers of coarse sand and gravel. Soils developed in the permeable stratified sandy loam and fine sandy loam have moderate to high permeability (2.0 to 6.3 inches/hour).

A typical profile of Riverhead sandy loam with 0 to 3 percent slopes can be found 0.9 mile south of State Route 25, 0.3 mile north of junction of County Road 21 and Longwood Road in Brookhaven at "Camp Wilderness, Boy Scouts of America" and is described below (Ref. 5):

- Ap 0 to 12 inches, brown to dark brown (10YR 4/3) sandy loam; weak, fine granular structure; friable; many fine roots in upper part; moderate to strong, platy, firm plowpan in lower 4 inches; strongly acid; abrupt, smooth boundary.
- B2 12 to 27 inches, strong brown (7.5YR 5/6) sandy loam; very weak, medium, subangular blocky structure that parts to weak, fine granular; friable; a few fine roots; many fine pores; less than 5 percent gravel; strongly acid; clear, wavy boundary.
- B31 27 to 32 inches, yellowish brown (10YR 5/4) loamy sand; very weak, fine, granular structure; very friable; a few fine roots; 10 percent gravel; strongly acid; abrupt, smooth boundary.
- IIB32 32 to 35 inches, yellowish brown (10YR 5/4) gravelly loamy sand; massive; friable; a few fine roots; 30 percent gravel; strongly acid; abrupt, smooth boundary.
- IIIC1 35 to 40 inches, brown to dark brown (7.5YR 4/4)
 sand; single grain; loose; 10 percent fine gravel;
 strongly acid; abrupt, smooth boundary.
- IIIC2 40 to 65 inches, very pale brown (10YR 7/4) coarse and medium sand that contains 2-inch layers of

gravel, 8 to 24 inches apart; single grain; loose; strongly acid.

4.2.2 Land Use

The site is within a residential area. The closest agricultural land is approximately 1 mile east of the site and the principal crops are leafy vegetables including lettuce, spinach, cabbage and radishes. It depends on irrigation from groundwater (Ref. 10). The total population within a 3 mile radius from the site is approximately 33,178 persons (Ref. 17).

4.2.3 Critical and Sensitive Habitats

There are no critical habitats or plant species of concern within a 1 mile radius of the site (Ref. 16). Wertheim National Wildlife Refuge is located approximately 2.2 mile east of the site.

4.3 REGIONAL HYDROLOGY

The groundwater reservoir system of Suffolk County is composed of hydrogeologic units that include lenses and layers of silt, clayey and silty sand, sand and gravel. A hydrogeologic unit consists of a geologic unit or a group of classified contiguous geologic units by hydraulic characteristics. These units include aquifers, which principal water sources, and confining layers, which separate the aquifers. The aquifers are, from the land surface downward, the Upper Glacial Aquifer, the Magothy aquifer, and the Lloyd aquifer. The major area confining layers are, in descending order, the Gardiners Clay, the Monmouth Greensand, and the Raritan Clay. The base of the groundwater reservoir is the crystalline bedrock.

The Raritan Formation rests directly on highly to slightly weathered bedrock. On Long Island the formation has two fairly distinct members; the Lloyd Sand Member below, and a Clay Member above. The Lloyd Sand Member is a fairly uniform and extensive unit consisting predominantly of sand and gravel with some clay. The Clay Member, which overlies the Lloyd sand, is largely composed of tough dark-gray or black lignitic clay and some red and white clay and includes some sandy layers and thin lenses of gravel.

The Magothy Formation in Central Suffolk County is a thick body of continental deposits composed of lenses of sand, sandy clay, clay, and some gravel. It rests on the Raritan Formation and is in turn unconformably overlain by Upper Pleistocene Deposits. The Gardiners Clay lies above the Magothy Formation and below the Glacial Deposits. The Glacial Deposits in the area consist primarily of glacial outwash, lacustrine and marine deposits.

Upper Glacial deposits are thought to occur at approximately

10 feet below grade, as exhibited by well logs in the area

(Ref. 1). Most wells in the area have been completed in the Upper

Glacial and hence there is an absence of data at greater depths. The water-table elevation is approximately 10 feet above MSL and approximately 30 feet below ground surface (Ref. 2). It is thought that the Upper Glacial deposits are directly underlain by the Magothy Formation at this location. The bedrock surface underlies the area at approximately 1800 feet below grade (Appendix C, Ref. 7).

4.4 SITE CONTAMINATION

There are no groundwater analytical data available at the site. The analyses of soil and puddle samples taken from the site immediately after the explosion indicated the presence of arsenic, aluminum, barium, magnesium, zinc, lead, copper and nickel. However, groundwater samples collected by Suffolk County Department of Health Services in December 1983 from six wells downgradient of the Grucci site indicated no significant degradation of groundwater quality (Appendix C, Ref. 8). Additional follow up sampling of private wells downgradient of the site in 1984 indicated no evidence of water quality problems (Appendix C, Ref. 9). Groundwater samples were collected again in 1986 from Maple Avenue, adjacent to the site were found to contain zinc upto a concentration of 2.6 mg/l, this is below the New York State Drinking Water Standard for Zinc at 5 mg/l.

Soil samples collected in 1983 by Suffolk County Department of Health Services after the explosion showed arsenic and barium

concentrations up to 480 and 56,000 ppm respectively. But soils were excavated and removed for disposal at a chemical landfill out of state. The entire site was scraped free of all rubble, and the top layer of soil removed to eliminate any additional possible areas of minor contamination.

5. PRELIMINARY APPLICATION OF THE HRS

5.1 NARRATIVE SUMMARY

The New York Pyrotechnics Product Company, Inc. commonly known as Grucci Fireworks Company (NYSDEC I.D. # 152116) is located on Association Road, Bellport, Suffolk County, New York (Figure 5-1). The size of the site is approximately 13 acres. Grucci Fireworks Company operated the facility from 1926, until the explosion in 1983, in which two family members were killed. A variety of chemicals were dispersed at the site by the explosion and fire. All chemical containers and residues were collected and removed by Marine Pollution Control under contract with NYSDEC. Areas where chemicals were spilled directly on the soil were excavated, and the soil was removed for disposal at a chemical landfill in Buffalo. Then the entire site was scraped free of all rubble, and the top layer of soil removed to eliminate any additional areas of possible minor contamination.

According to New York Pyrotechnics Company, no chemicals have been buried on the site. Since the manufacture of fireworks is a dry assembly operation, toxic discharges are not an inherent part of the process. Longitude: 70°56' 30" Latitude: 40°45' 30"

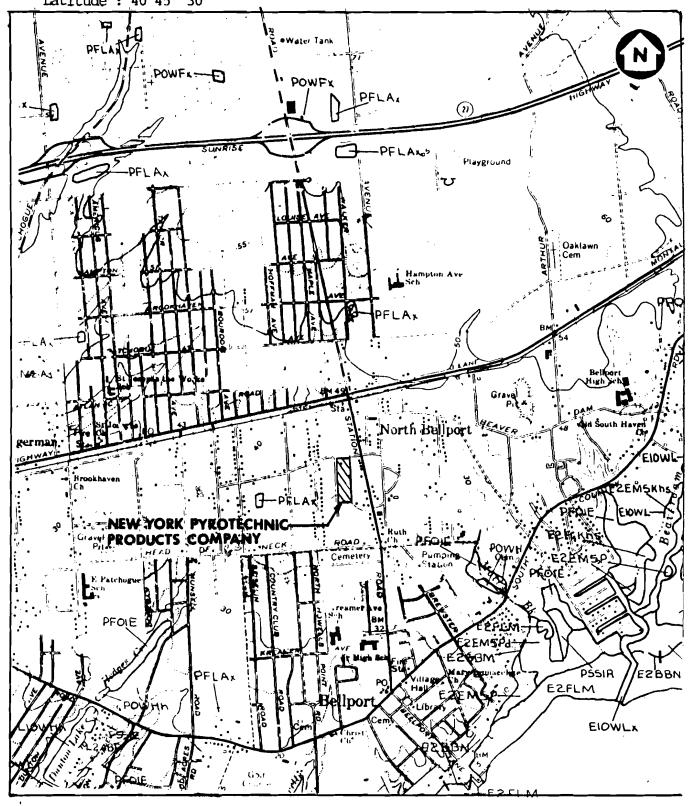


FIGURE 5-1

BELLPORT QUADRANGLE

NEW YORK PYROTECHNIC PRODUCTS COMPANY BELLPORT, NEW YORK.

SITE LOCATION MAP

FIGURE 1

HRS COVER SHEET

W. J. D Lanks 's Desidents Comments
Facility Name: New York Pyrotechnic Products Company
Association Road, Bellport, New York.
EPA Region: Region II
Person(s) In Charge of Facility: Felix J. Grucci, Jr. & Concetta Grucci
Name of Reviewer: Ari Selvakumar Date: 12/20/88
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.) The New York Pyrotechnics Product Company, Inc. known as Grucci Fireworks Company is located in Association Road, Bellport, New York. The size of the site is approximately 13 acres. Grucci Fireworks Company operated the facility from 1926 to 1983. On the 26th of November, 1983, an explosion took place at the site and most of the chemical
that were stored on the site went up with explosion. The soil mixed with chemicals were removed and sent to a seculandfill in Buffalo. The entire site was scraped free of all rubble, and the top layer of soil removed to eliminat any additional possible areas of minor contamination. According to New York Pyrotechnics Product Company, no chemicals have been buried on the site.
Scores: $s_{M} = 30.98$ $s_{gw} = 53.59 s_{sw} = 0 s_{a} = 0$
S _{FE} ■ Not Scored
\$_{DC} ≈ 50.0

	Ground Water Route Work Sheet									
	Rating Factor	Assigned Value (Circle One)	Multi- plier	1 5000	Max. Score	Re (Sect				
1	Observed Release	() 45	1	0	45	3.				
		e is given a score of 45, proceed to line 4. s is given a score of 0, proceed to line 2.								
2	Route Characteris Depth to Aquifer Concern		2	4	6	3.				
	Net Precipitation Permeability of to Unsaturated Zo		1	3 2	3 3					
	Physical State	0 1 ② 3	1	2	3					
		Total Route Characteristics Score		11	15					
3	Containment	0 1 2 3	1	3	3	3.				
1	Waste Characterist Toxicity/Persiste Hazardous Waste Quantity	nce 0 3 6 9 12 15 (8)	1	18 1	18 8	3.				
	· , ,				11					
		Total Waste Characteristics Score		19	26					
3	Targets Ground Water Us Distance to Near Well/Population Served		3	9 40	9 40	3.5				
	· .	Total Targets Score		49	49					
	f line 1 is 45, m	ultiply 1 x 4 x 5 Itiply 2 x 3 x 4 x 5	[3	30,722.6	57.330					
] [Divide line 6 by	57.330 and multiply by 100 S	aw =	53.59						

		Surfa	ce Water	Route Work Sh	eet			
	Rating Factor		Assigned (Circle (Multi- plier	Score	Max. Score	Ref. (Section
1	Observed Release	• (0)	45	1	0	45	4,1
		se is given a value se is given a value						_
2	Route Characteris	itics						4.2
	Facility Slope at	nd Intervening (0) 1 2 3	3	1	0	3	
	1-yr. 24-hr. Rain Distance to Nea Water	ofall 0 prest Surface 0	1 2 3)	1 2	2 4	3 6	
	Physical State	0	1 2 3	•	1	2	3	
		Total Ro	ute Chara	cteristics Score		8	15	
<u></u>	Containment	0) 1 2 3		1	0	3	4.3
1	Waste Characterist Toxicity/Persist Hazardous Wast Quantity	ence 0	3 6 9	12 15 (B) 4 5 6 7	1 8 1	18 1	18	4.4
		Total Wa	ste Chara	cteristics Score		19	25	
3	Targets Surface Water U Distance to a Se	_	1 (2)	3	3 2	6 6	9	4.5
	Environment Population Serve to Water Intake Downstream			8 10 20 35 40	1	0	40	
		То	tal Target	s Score		12	55	
_		multiply 1 x 4	x 5 x 4 x	5		0	64.350	
7]	Divide line 6 b							

Rating Factor	re Section
Date and Location: Sampling Protocol: If line	5.1
Sampling Protocol: If line	
If line 1 is 0, the Sa = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.	
If line 1 is 45, then proceed to line 2. Waste Characteristics Reactivity and 0 1 2 3 1 Incompatibility Toxicity 0 1 2 3 3 Hazardous Waste 0 1 2 3 4 5 6 7 8 1 Quantity Total Waste Characteristics Score 20 Targets Population Within 1 0 9 12 15 18 1 30 4-Mile Radius 21 24 27 30 Distance to Sensitive 0 1 2 3 2 6 Environment	
Reactivity and	
Incompatibility Toxicity Distance to Sensitive Incompatibility O 1 2 3 3 3 Hazardous Waste O 1 2 3 4 5 6 7 8 1 Cuantity Total Waste Characteristics Score 20 21 22 23 24 27 20 24 26 27 26 27 28 28 29 20 20 20 20 20 20 20 20 20	5.2
Toxicity 0 1 2 3 3 3 4 5 6 7 8 1 Quantity Total Waste Characteristics Score 20 Targets Population Within 3 9 12 15 18 1 30 4-Mile Radius 21 24 27 30 Distance to Sensitive 0 1 2 3 2 6 Environment	
Total Waste Characteristics Score 20 Targets Population Within	
Targets 0 9 12 15 18 1 30 4-Mile Radius 21 24 27 30 1 2 3 2 6 Environment 2 1 2 1 2 2 6 1 2 3 2 6 1 2 3 2 6 1 2 3 2 6 1 2 3 2 6 1 2 3 2 6 1 2 3 1 2	
3 Targets Population Within	
Targets 0 9 12 15 18 1 30 4-Mile Radius 21 24 27 30 1 2 3 2 6 Environment 1 2 1	
Population Within	
4-Mile Radius 21 24 27 30 Distance to Sensitive 0 1 2 3 2 6 Environment	5.3
Distance to Sensitive 0 1 2 3 2 6 Environment	3.5
Environment 0 1 0 0	
Land Use 0 1 2 3 1 3	
Total Targets Score 39	
Multiply 1 x 2 x 3 0 35.10	7
5 Divide line 4 by 35,100 and multiply by 100 Sa = 0	

AIR ROUTE WORK SHEET

	s	s²
Groundwater Route Score (Sgw)	53.59	2,871.78
Surface Water Route Score (Saw)	0	0
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_s^2$		2,871.78
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_s^2}$		53.59
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M -$		30.98

WORKSHEET FOR COMPUTING SM

NOT SCORED	Fire	and	Expl	0 8i0	on W	ork	Sheet	NOT :	SCORE)	
Rating Factor	^		ned cle				·	Multi- plier	Score	Max. Score	Ref.
Containment	1				3			1		3	7.1
Waste Characteristic Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0 0 0		2 : 2 : 2 :	3 3 3 3	5	6	7 8	1 1 1 1		3 3 3 3 8	7.2
Г	Total Was	ote C	han			:s Sc	ore		·	20	
3 Targets Distance to Neares Population	ot 0	1	2 3	4	5			1		5	7.3
Distance to Neares Building	- · · · · · · · · · · · · · · · · · · ·	1	2. 3)				1		3	
Distance to Sensiti Environment	-		2 3			•		1		3	
Land Use Population Within 2-Mile Radius Buildings Within	0		2 3 2 3 2 3	4	5			1 1		3 5 5	
2-Mile Radius											
	Total	u Ta	rgel	s S	core					24	
Multiply 1 x 2	× 3									1,440	
5 Divide line 4 by 1	,440 and multiply	by 1	00	-			<u> </u>		Not Sc		

FIRE AND EXPLOSION WORK SHEET

	Rating Factor	Assigned Value (Circle One)	Muill- plier	Score	Score	(Section)
	Observed Incident	() 45	1	0	45	8.1
	If line 1 is 45, proceed to 11 line 1 is 0, proceed to				•	
2	Accessibility	0 1 2 3	1	3	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
3	Targeta Population Within a 1-Mile Radius	0 1 2 3 🕙 5	4	16	20	8.5
	Distance to a Critical Habitat	① 1 2 3.	4	0	12	
7	•					
	•					
7	and the second s					
T						
T						
 						
 ·						
T	P					,
		Total Targets Score		16	32	
	l line 1 is 45, multiply [line 1 is 0, multiply 2	1 x 4 x 5 2 x 3 x 4 x 5	1	0,800	21,600	:
7	Divide line 6 by 21,600 a	nd multiply by 100	SDC -	50.0		

DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 80 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: New York Pyrotechnic Products Company

Association Road, Bellport, New York. Location:

Date Scored: 11/20/88

Site Interviews

Ari Selvakumar Person Scoring:

Primary Source(s) of Information (e.g., EPA region, state, FIT, etc.):

Suffolk County Department of Health Services New York State Department of Environmental Conservation Site Inspection

Factors Not Scored Due to Insufficient Information:

Fire and explosion score was not completed because the site was not declared a fire/explosion threat by the Chief Fire Marshal.

(Ref. 18, P. #2, Ref. 19)

Comments or Qualifications:

GROUNDWATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (3 maximum):

None.

Assigned score = 0.

Rationale for attributing the contaminants to the facility:

N/A

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Upper glacial deposit underlain by the Magothy formation. These are hydraulically connected.

(Ref. 1, P. #3-7)

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

Site elevation is approximately 40 feet above MSL Water table elevation is approximately 10 feet, Therefore, depth to water table is approximately 30 feet.

(Ref. 2, P. #2)

Depth from the ground surface to the lowest point of waste disposal/storage: Zero. Assigned value = 2.

(Ref. 3)

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal): 49 inches.

(Ref. 4, P. #2)

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

26 inches.

(Ref. 4, P. #3)

Net precipitation (subtract the above figures):

23 inches. Assigned value = 3.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Riverhead Sandy Loam.

(Ref. 5, P. #1-4)

Permeability associated with soil type:

2.0 to 6.3 inches/hr. Assigned value = 2.

(Ref. 5, P. #6)

Physical State

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

Powders, fines. Assigned value = 2.

(Ref. 6, P. #1-7, Ref. 3, P. #2)

* * *

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

No artificial or natural containment measures present.

Method with highest score:

Assigned value = 3.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Arsenic, lead, barium.

Compound with highest score:

Lead. Assigned value = 18.

Hazardous Waste Quantity

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

Unknown.

Basis of estimating and/or computing waste quantity:

5 - 12

Assign minimum value = 1.

5. TARGETS

Groundwater Use

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

Drinking water from public and private wells used by residents, commercial and industrial needs and irrigation. Assigned value = 3.

(Ref. 8, P. #2)

(Ref. 9, P. #1-3, Ref. 10, P. #2, Ref. 11, P. #1-2, Ref. 12, P. #2-3)

Olstance to Nearest Well

(Ref. 7, P#2-3)

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

Private wells serving houses are within 0.1 mile from the site. The closest residence/building is 200 feet.

(Ref. 12, P. #2-3, Ref. 13, P. #2)

Distance to above well or building:

200 feet. Assigned value = 4.

(Ref. 3, P. #3, Ref. 13, P. #2)

Population Served by Groundwater Wells Within a 3-Mile Radius

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

Three Suffolk County Water Authority well fields, Swan Lake Water Corporation wells and many private wells are within 3-mile radius of the site.

(Ref. 7, P. #2-3, Ref. 8, P. #2, Ref. 9, P. #1-3, Ref. 11, P. #1-2)

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):

Approximately 150 acres.

Ref.10, P.#4

Total population served by groundwater within a 3-mile radius:

SCWA wells 19,000 (Ref. 7, P. #2-3) Swan Lake Corp. wells 2,000 (Ref. 8, P. #2)

Private wells + Irrigation - Total > 10,000. Assigned value = 40.

SURFACE WATER ROUTE

1. OBSERVED RELEASE Contaminants detected in surface water at the facility or downhill from it (5 maximum): No data available. Assigned score = 0. Rationals for attributing the contaminants to the facility: N/A. 2. ROUTE CHARACTERISTICS Facility Slope and Intervening Terrain Average slope of facility in percent: 0%. (Ref. 3, P. #3) Name/description of nearest downslope surface water: Motts Brook. (Ref. 14) Average slope of terrain between facility and above-cited surface water body in percent: (Ref. 14) 0.4%. Assigned value = 0is the facility located either totally or partially in surface water? No. (Ref. 3, Ref. 14) is the facility completely surrounded by areas of higher elevation? No. Assigned value = 0. (Ref. 3, Ref. 14) 1-Year 24-Hour Rainfall in Inches 2.8 inches. Assigned value = 2. (Ref. 4, P. #4) Distance to Nearest Downslope Surface Water 0.5 miles. Assigned value = 2.

(Ref. 14)

Physical State of Waste

Powdered and fine material. Assigned value = 2.

(Ref. 6, P. #1-7, Ref. 3, P. #2)

. .

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Contaminated soils are situated in a relatively flat area. There is no viable overland route from the site to surface water due to several roads which intersect the pathway.

(Ref. 3)

Method with highest score:

Terrain precludes run off from entering surface water. Assigned value = 0

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Arsenic, barium and lead.

Compound with highest score:

Lead, assigned value = 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.):

Unknown.

Basis of estimating and/or computing waste quantity:

Assign minimum score = 1.

. .

5. TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance: Fishing and recreation. Assigned value = 2. (Ref. 20, P. #2-3)

is there tidal influence?	
N/A	
Distance to a Sensitive Environment	
Distance to 5-acre (minimum) coastal wetland, i	if 2 miles or less:
1.3 miles. Assigned value = 1	(Ref. 10, P. #2
Distance to 5-acre (minimum) fresh-water wetlar	nd, If I mile or less:
0.47 miles. Assigned value = 1	(Ref. 15, P. #4
Distance to critical habitat of an endangered s if 1 mile or less:	species or national wildlife refuge,
None. Assigned value = 3.	(Dof. 16 D. #2
Population Served by Surface Water	(Ref. 16, P. #2
TOPATHITON SOLVED BY SALTACO HATCH	
Location(s) of water-supply intake(s) within 3 (static water bodies) downstream of the hazardo each intake:	

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

N/A

Total population served:

N/A

Name/description of nearest of above water bodies:

N/A

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

N/A

AIR ROUTE

			•		
	1.	OBSERVED RELEASE			
		Contaminants detected:			
		No contaminants reported or detected.			
			(Ref. 3,	, P.	#5)
		Date and location of detection of contaminants:			
		N/A			
		Methods used to detect the contaminants: HNu Photoionizer.			
		Rationale for attributing the contaminants to the site:			
		N/A			
		* * *			
	2.	WASTE CHARACTERISTICS			
		Reactivity and incompatibility			
		Most reactive compound:			
		N/A			
		Most incompatible pair of compounds:			
ı		N/A			
		Toxicity			
		Most toxic compound:			
		N/A			
ı		Hazardous Waste Quantity			
		Total quantity of hazardous waste:			
,		N/A			
ì		Basis of estimating and/or computing waste quantity:			
		N/A			

3. TARGETS

Population Within 4-Mile Radius

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

0 to 4 mi

0 to 1/2 ml

0 to 1/4 mi

7,832.

(Ref. 17, P. # 4-14)

Distance to a Sensitive Environment

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

1.3 miles.

(Ref. 10, P. #2)

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

0.47 miles.

(Ref. 15, P. #4)

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

None.

(Ref. 16, P. #2)

Land Use

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

100 ft.

(Ref. 13, P. #2)

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

N/A

Distance to residential area, if 2 miles or less:

Approximately 200 feet - homes along Maple Ave.

(Ref. 3, P. #3, Ref. 13, P. #2)

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

Approximately 1-mile.

(Ref. 10, P. #2)

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

Approximately 1 mile.

(Ref. 10, P. #2)

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

N/A

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

None reported or observed.

(Ref.3 , P. #5, Ref. 18, P. # 2, Ref. 19)

Type of containment, if applicable

N/A

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

HNu photoionization detector.

<u>IgnItablilty</u>

Compound used:

N/A

Reactivity

Most reactive compound:

N/A

Incompatibility

Most incompatible pair of compounds:

N/A

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

N/A

Basis of estimating and/or computing waste quantity:

N/A

* * *

3. TARGETS

Distance to Nearest Population

Approximately 200 feet.

(Ref. 13, P. #2, Ref. 3, P. #3)

Distance to Nearest Building

200 ft.

(Ref. 13, P. #2)

Distance to a Sensitive Environment

Distance to wetlands:

0.47 miles.

(Ref. 15, P. #4)

Distance to critical habitat:

None within a 1-mile radius.

(Ref. 16, P. #2)

Land Use

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

100 feet.

(Ref. 13, P. #2)

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:

Approximately 200 feet.

(Ref. 13, P. #2, Ref. 3, P. #3)

Distance to agricultural land in production within past 5 years, if 1 mile or less: Approximately 1-mile. (Ref. 10, P. #2)

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

Approximately 1 mile.

(Ref. 10, P. #2)

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

N/A

Population Within 2-Mile Radius

18,405.

(Ref. 17, P. #13)

Buildings Within 2-Mile Radius

Greater than 100.

(Ref. 13, P. #2)

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

None reported. Assigned value = 0.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

The site is partially fenced. Assigned value = 3.

(Ref. 3, P. #3)

Type of containment, if applicable:

None.

3. CONTAINMENT

Assigned value = 15.

* * .

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Barium, arsenic and lead.

Compound with highest score:

Lead, Assigned value = 3.

* * *

5. TARGETS

Population Within One-mile Radius

7,832. Assigned value = 4.

(Ref. 17, P. #13)

Distance to Critical Habitat (of endangered species)

None within a 1-mile radius. Assigned value = 0. (Ref. 16, P. # 2)

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 the References

- 1. H.M. Jensen and Julian Soren, Hydrogeologic Data from Selected Wells and Test Holes in Suffolk County, Long Island, New York, United States Geological Survey, Long Island Water Resources Bulletin No. 3, 1971.
- Thomas P. Doriski, Potentiometric-Surface of the Water-Table, Magothy, and Lloyd Aquifers on Long Island, New York, in 1984, United States Geological Survey, Water Resources Investigations Report 86-4189, 1987.
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- 4. United States Environmental Protection Agency, Uncontrolled Hazardous Waste Site Ranking System: A Users Manual, August, 1984.
- 5. United States Department of Agriculture, Soil Conservation Service, Soil Survey of Suffolk County, New York, 1975.
- 6. Felix J. Grucci, Jr., Chemical Listing for New York Pyrotechnic Products Co..
- 7. Rosavitch, E.J., Suffolk County Water Authority, New York, Communication regarding the population served by groundwater within 3-mile radius of the site, November 1, 1988.
- 8. Stanley Beck, Swan Lake Water Corporation, New York, Communication regarding the population served by them within 3-mile radius of the site, October 19,1988.
- 9. New York State Department of Health, New York State Atlas of Community Water Systems Sources, 1982.
- 10. Sanok, J. William, Cooperative Extension Agent, Cornell Cooperative Extension, Riverhead, New York, Communication regarding farmland, agriculture land and surface water bodies, November 21, 1988.

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Reference Number			Descrip	otion of	the Reference	es	
11_	Martin	Trent.	Suffolk	County	Department	of	Healt

- 11. Martin Trent, Suffolk County Department of Health Services, Communication regarding private water supply analyses, September 26, 1988.
- 12. Suffolk County Department of Health Services, Letter from Martin Trent, Suffolk County Department of Services to James Pim, P.E., August 2, 1984.
- 13. Elsehamy, Mostafa, Fanning, Phillips and Molnar Consulting Engineers, Communication regarding Grucci Site, December 21, 1988.
- 14. USGS 7.5- minute Series (Topographic) Quadrangle, Bellport, New York, 1969.
- 15. Shea, E. Martin, New York State Department of Environmental Conservation, Region 1, New York, Communication regarding NYSDEC regulated freshwater wetlands within 1-mile radius of the Grucci Site. December 7, 1988.
- 16. Scheibel, S. Michael, 1988, New York State Department of Environmental Conservation, Region 1, New York, Communication regarding critical habitat of endangered species or plant species of concern in the vicinity of Grucci Site, October 25, 1988.
- 17. Long Island Regional Planning Board, Census Tracts and Population 1980, 1982.
- 18. Sauerwein, F. Joseph, 1988, Chief Fire Marshal, Division of Fire Prevention, Town of Brookhaven, New York, Communication regarding whether the site is declared as a threat of fire and/or explosion, December 12, 1988.
- 19. Division of Fire Prevention, Town of Brookhaven, Letter from Joseph F. Sauerwein to Thomas G. Liguori, Commissioner, February 20, 1986.
- 20. Tucker, Colbey, New York State Department of Environmental Conservation, Albany, Communication regarding surface water usage within 3-miles of the Grucci Site, August 7, 1989.

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LOAN COPY

HYDROGEOLOGIC DATA FROM SELECTED WELLS AND TEST HOLES IN SUFFOLK COUNTY, LONG ISLAND, NEW YORK

By

H. M. Jensen and Julian Soren



LONG ISLAND WATER RESOURCES BULLETIN NUMBER 3

Prepared by the U. S. Department of Interior, Geological Survey, in cooperation with the New York State Department of Environmental Conservation, the Nassau County Department of Public Works, the Suffolk County Department of Environmental Control, and the Suffolk County Water Authority.

Published by

SUFFOLK COUNTY DEPARTMENT OF ENVIRONMENTAL CONTROL

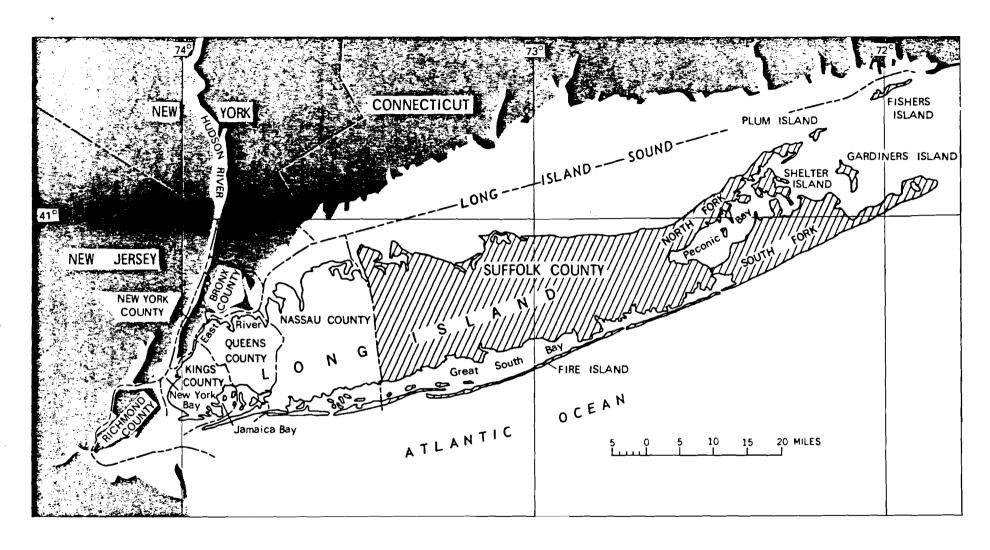


Figure 1.--Map of Long Island, N.Y., showing location of Suffolk County

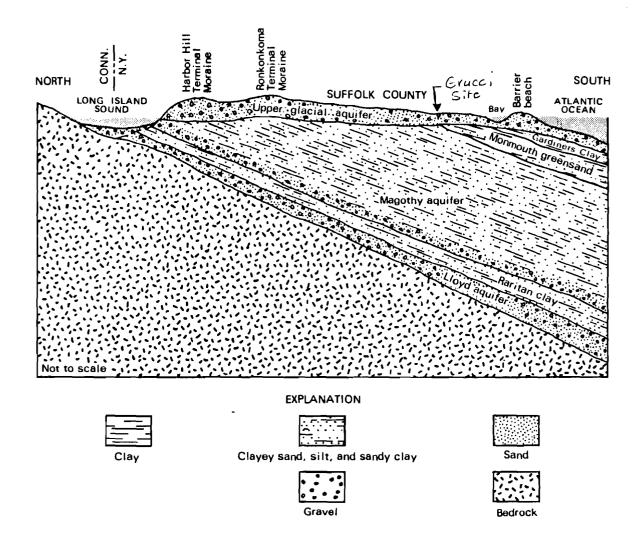


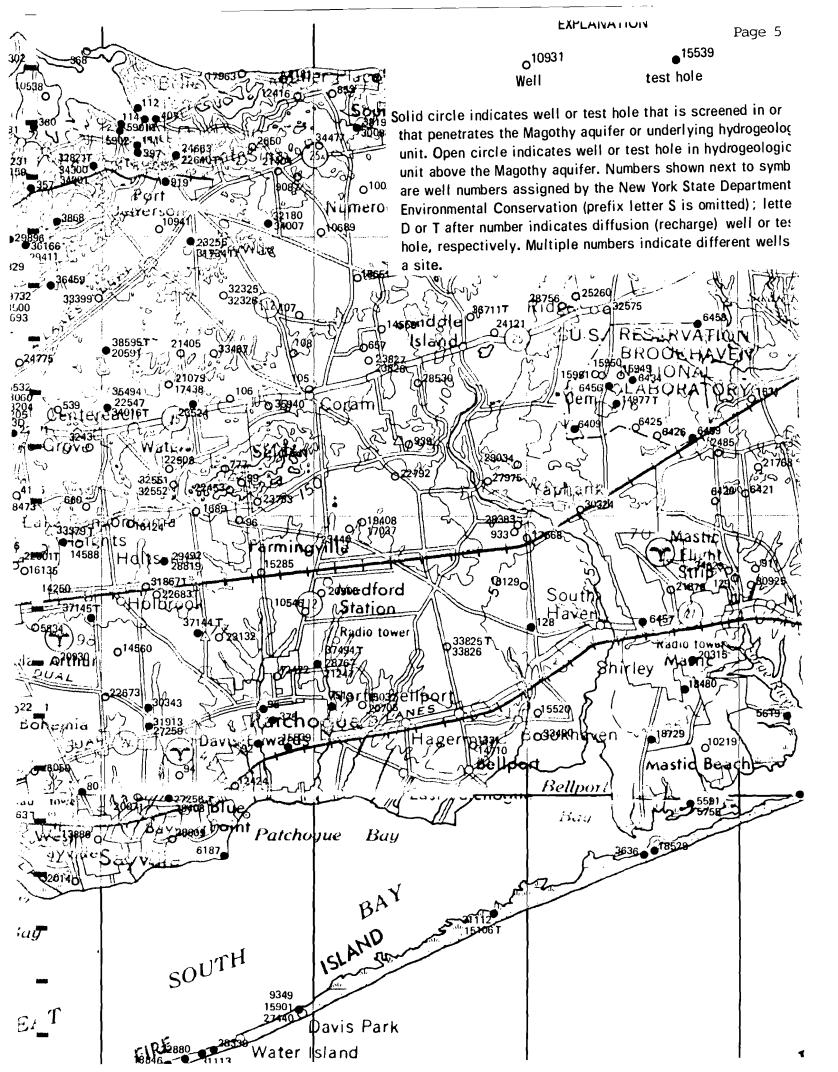
Figure 2. -- Generalized section showing major hydrogeologic units in Suffolk County, N.Y.

Table 1. -- Major hydrogeologic units in Suffolk County, N. Y.

	Hydrogeologic unit <u>1</u> /	Geologic name	Approximate thickness (feet)	Description and water-bearing character
<i>'</i> ,'	Upper glacial aquifer	Holocene and upper Pleistocene deposits, and Hannetto Gravel	0-750	Mainly brown and gray sand and gravel of moderate to high hydraulic conductivity; also includes deposits of clayey glacial till and lacustrine clay of low hydraulic conductivity. A major aquifer.
}	Gardiners Clay	Gardiners Clay	0-75	Green and gray clay, silt, clayey and silty sand, and some interbedded clayey and silty gravel; of low hydraulic conductivity. Unit tends to confine water in underlying aquifer.
	Jameco aquifer	Jameco Gravel	Not known	Not identified in Suffolk County.
t-	Monmouth greensand 2/	Monmouth Group	0-200	Interbedded marine deposits of dark-gray, olive- green, dark-greenish-gray, and greenish-black glauconitic and lignitic clay, silt, and clayey and silty sand. Unit has low hydraulic conductivity and tends to confine water in underlying aquifer.
lv*	Magothy aquifer	Matawan Group- Magothy Formation, undifferentiated	0-1,100	Gray and white fine to coarse sand of moderate hydraulic conductivity. Generally contains sand and gravel beds of low to high hydraulic conductivity in basal 100 to 200 feet. Contains much interstitial clay and silt, and beds and lenses of clay, of low hydraulic conductivity. A major aquifer.
y ^r	Raritan cłąy	Clay member of the Raritan Formation	0-200	Gray, black, and multicolored clay and some silt and fine sand. Unit has low hydraulic conductivity and tends to confine water in underlying aquifer.
V	Lloyd aquifer	Lloyd Sand Member of the Raritan Formation	0-500	White and gray fine-to-coarse sand and gravel of moderate hydraulic conductivity and some clayey beds of low hydraulic conductivity. Not highly developed as an aquifer.
/	Bedrock	Undifferentiated crystalline rocks	Not known	Mainly metamorphic rocks of low hydraulic conductivity; surface generally weathered; considered to be the bottom of the groundwater reservoir. Not a source of water in Suffolk County.

 $[\]underline{1}/$ Adapted largely from Cohen and other (1968, p. 18).

 $[\]underline{2}$ / Name adopted in this report.



	MYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF UPPER SURFACE IN FEET ABOVE OR BELOW (-) MSL				F	WE	LL-COMPLET							
		CATION OF WELL	N DF WELL				HYDROGEO-							
WELL NUMBER	MAP COORD	LATITUDE AND LONGITUDE	DEPTH (FT)	GLACIAL ADU1FER	INERS CLAY		AQUIFER	CLAY	LLOYD AOUIFER	ROCK	LOGIC UNIT DEVELOPED		E NR) MSL)	CAPACITY (GPM/FT)
1102	G20	410311N0722827.1	74	10							UPGLAC	-61 TO	-64	
1215	F17	405743N0724259.1	114	95							UPGLAC	-9 TD	-19	16
1250	H21	410605N0722142.1	70	9							UPGL AC	-41 TN	-61	
1264	D16	404457N0724836.1	301	5		-97	-270				MAGDTHY	-284 TO	-296	
1296	D 9	404907N0732035.1	216	240			80				MAGDIHY	32 TO	25	
1318	E19	405127N0723017.1	50	15							UPGLAC			25
1331	D14	404551N0725617.1	60	30							UPGLAC	man		
1341	E21	405412N07ZZ3Z8-1	99	38	• •						UPGLAC	-38 TO	-61	38
1370 1399	B11 F25	403756N0731313.1 405943N0720243.1	375 339	10	-94	-98	-203				MAGNTHY Magnthy	-353 TO	-360	
1377	F23	403443NU 120243.1	334	20		-150	-266 ₁				MAGGINY			
1407	D16	404941N0724706.1	82	85							UPGL AC	9 TN	3	
1497	F12	405604N0730851.1	257	10			-172				MAGOTHY	-232 TO	-237	
1531	E16	405208N0724945.1	138	45							UPGLAC	-90 TO	-93	
1569	E12	405245N0730951.1	134	160							UPGLAC	29 T.O	26	
1592	D16	404708N0724825.1	220	10	-114	-123	-203				MAGDTHY	-205 TO	-210	
1601	F10	405507N0731834.1	128	80							UPGLAC	-43 TO	-48	12
1609	F17	405818N0724131.1	121	100							UPGLAC	-1 TO	-21	50
1610	F18	405749N0723931.1	93	70							UPGLAC	6 TO	-14	29
1686	D11	404840N0731158.1	183	180							UPGLAC	0 TO	-3	
1689	E13	405006N0730247.1	115	160							UPGLAC	54 TN	46	
1723	D10	404749N0731610.1	159	122			-37				UPGLAC			40
1743	D16	404712N0724822.1	229	10	-82	-120	-200				MAGOTHY	-209 TO	-219	
1777	F18	405716N0723947.1	90	40							UPGLAC	-35 TO	-50	
1790	F18	405646N0723855.1	84	40							UPGLAC	-24 TO	-44	
1793	D 9	404840N0732100.1	273	320			132				MAGDTHY	50 TO	47	
1801	D 9	404826N0732030.1	175	200			148				MAGQTHY	33 TN	27	
1822	F16	405654N0724707.1	147	115			• • •				UPGLAC	-12 TD	-32	22
1834	B 9	403650N0732455.1	300	10	-70		-92				MAGOTHY	-280 TO	-290	1
1838	F17	405741N0724317.1	133	100	. •						UPGLAC	-18 TO	-33	65
1842	E 9	405119N0732003.1	445	205							UPGLAC	-220 TO	-240	16
1892	F17	405621N0724435.1	100	85							UPGL AC	0 TO	-15	14
1929	F17	405723N0724446.1	155	110							UPGLAC	-25 TD	-45	• •
1951	E 9	405206N0732059.1	4B8	220							UPGLAC	-248 TO	-268	13
2010	F17	405819N0724242.1	162	140							UPGLAC	-12 TO	-22	
2016	F14	405656N0725533.1	120	150							UPGLAC			
2181	F13	405745N0730046.1	346	60							UPGL AC	-271 TO	-286	
2314	D 9	404605N0732118.1	480	80			66				MAGOTHY	-385 TO	-400	
2405	F23	405722N0721230.1	88	45			.,,				UPGLAC	-10 TO	-40	57
2406	E11	405131N0731114.1	143	100							UPGLAC		. •	
2424	D 9	404603N0732214.1	150	110			98				MAGOTHY	-37 TO	-40	

Table 2.--Hydrogeologic correlations and well-completion data from selected wells and test holes in Suffolk County, N.Y. (Continued)

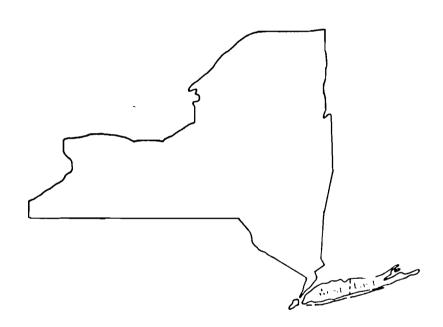
~					HYDROGEDLOGIC UNIT PENETRATED AND ALTITUDE OF UPPER SURFACE IN FEET ABOVE OR BELOW (-) MSL									
WELL		CATION OF WELL		UPPER	GARD-			RARI-			HYDROGEO- Logic	SCREEN S	ETTING	SPECIFIC
NUMBER			DEPTH (FT)								UN]T DEVELOPED			
13568	F22	405605N0721906.1	73	40							UPGL AC	-26 TO		
13579	D 8	404937N0732626.1	126	175			142	,			MAGDTHY	55 TO	49	
13591 13640	D 8 F18	404600N0732624.1 405922N0723626.1	309 119	170 85			73				UPGLAC	-19 TO	-34	18
13642	Dio	404821N0731715.1	95	90							UPGLAC	11 TO	-5	18
13712	E 9	405Z44N073Z414.1	236	190			•				UPGLAC			
13854	В 9	403800N0732034.1	319	15	-75		- 95				MAGDTHY	-288 TO	-304	
13876	ЕВ	405013N0732638.1	298	120			67				MAGOTHY	-126 TO	-178	38
13886	C12	404404N0730506.1	37	20							UPGLAC	-12 TO	-17	9
14150	C11	404352N0731343.1	71	11							UPGLAC	-39 TO	-60	14
14250	D12	404835N0730634.1	137	110							UPGL AC	-7 10	-27	13
14326	D11	404920N0731427.1	225	70			-38				MAGDTHY	-71 TO	-155	63
14521	E 9	405143N0732019.1	552	200							UPGL AC	-259 TO	-352	86
14559	E14	405320N0725831.1	81	85							UPGLAC	15 TO	4	
14560	D13	404733N0730440.1	61	88							UPGL AC	33 10	27	
14579	D10	404954N0731839.1	554	157			-121				MAGNTHY	-298 TO		61
14588	D12	404928N0730534.1	140	132							UPGLAC	15 TO	- 5	
14612	F14	405746N0725635.1	140	100							UPGL AC	-18 TO	-40	
14623 14675	H22 E 8	410903N0721520.1 405113N0732606.1	42 595	12 230				-337			UPGLAC	-20 TO	- 30	17
				230				-351						
14678	D17	404628N0724308.1	376	10	-98	-130	-210				MAGNTHY	-355 TN		
14710	D14	404553N0725618.1	116_	30							UPGLAC	-53 TO	-83	72
14750	F-9	405559N0732324.1	135	100			62				UPGLAC	-30 10	-35	
14759 14767	D 9	404816N0732150.1	411	200							UPGLAC	-166 TO -164 TO		49 31
14101	E17	405452N0724001.1	215	20							UPGLAC	-164 (()	-194	31
14776	E10	405459N0731634.1	96	60							UPGL AC	-26 TO	-32	
14825	D 8	404538N0732622.1	193	140			105				MAGOTHY	-17 TN	-48	1
14828	E 8	405113N0732606.1	506	227							UPGL AC		-273	357
14885 14904	E12 C11	405033N0730903.1	74	110	-74		-107				UPGLAC MAGDTHY	42 TO -218 TD	39 -233	
14904	CII	404221N0731142.1	238	3	- / 4		-107				HAGUINT	-218 10	-7:55	
14907	E19	405206N0723436.1	188	170							UPGL AC	-14 TD	-18	
14921	F23	405813N0721009.1	125	50							UPGLAC	-44 TO	-74	
14977	E15	405158N0725258.1	298	97	-81		-133				MAGRITHY	-23 TO	-293	
14987	E 9	405106N0732246.1	217	210							UPGLAC	10 TO	-5	_
15008	B12	403850N0730812.1	406	5	-110	-128	-263				MAGOTHY	-367 TO	-401	2
15015	F18	405738N0723906.1	134	64							UPGL AC	-50 TN	-70	22
15037	D14	404639N0725856.1	102	42							UPGLAC	-30 TO	-60	
15091	G24	410256N0720946.1	169	45							UPGL AC	-55 TO	-95	77
15106	C14	404245N0725546.1	1942	5	-111	-137	-235	-1279	-1505	-1906				
15189	E 9	405247N0732355.1	210	210							UPGL AC			

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•	Reference 2
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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

POTENTIOMETRIC-SURFACE OF THE WATER-TABLE, MAGOTHY, AND LLOYD AQUIFERS ON LONG ISLAND, NEW YORK, IN 1984

By Thomas P. Doriski



WATER-RESOURCES INVESTIGATIONS REPORT 86-4189

Plate 1. Water-table altitude

Plate 3. Potentiometric surface of Magothy aquifer

Plate 2. Water-table well numbers

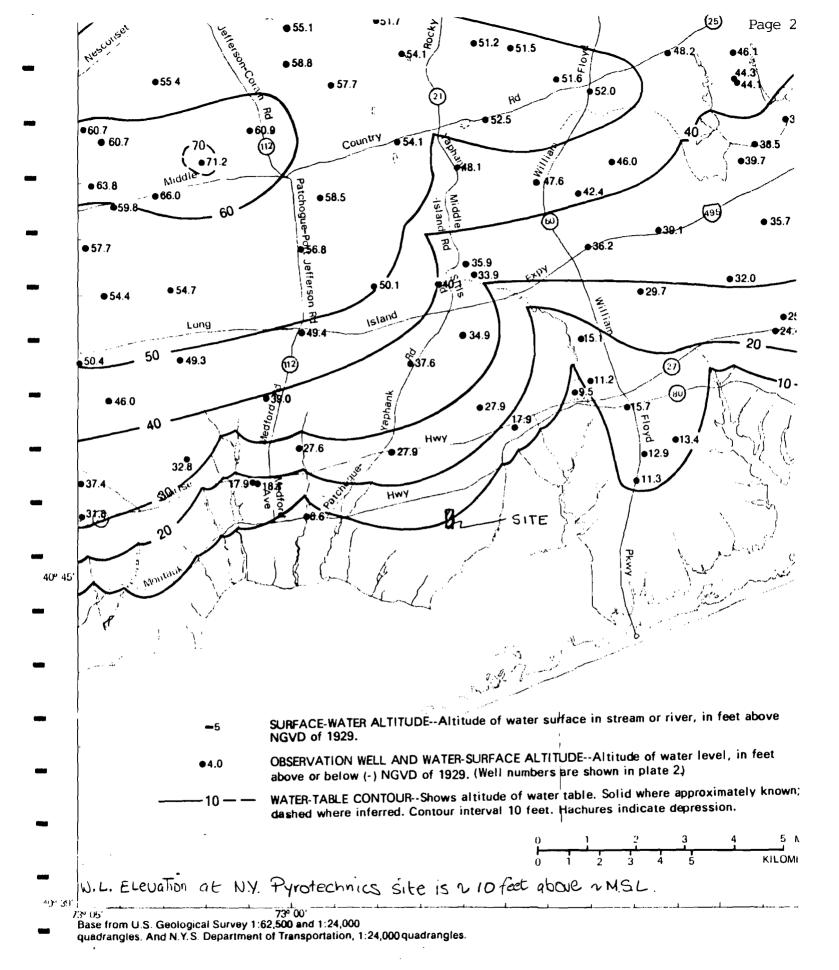
Plate 4. Potentiometric surface of Lloyd aquifer

Prepared in cooperation with the

NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
SUFFOLK COUNTY WATER AUTHORITY
OF STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Syosset, New York



-VATER-TABLE ON LONG ISLAND, NEW YORK, MARCH-APRIL 198

Reference 3

SITE INSPECTION REPORT

NYSDEC SITE NO.: 152116

SITE NAME: New York Pyrotechnics Products, Inc. (Grucci)

SITE LOCATION: Association Road,

Bellport, NY 11713

DATE OF INSPECTION: 12/16/88

WEATHER: Low 20's F, chilly

SITE STATUS: Inactive

YEARS OF OPERATION: 1926 to 1983

AGENCY PERFORMING

INSPECTION: YEC, Inc., NYSDEC's Subcontractor

INSPECTED BY: Ed. Chen, Ph.D., P.E., Principal

Marie McDonnell, Staff Geologist

SITE REPRESENTATIVES

INTERVIEWED: Dr. Kevin J. Phillips, P.E., Principal

Mostafa M. Elsehamy, Geohydrologist (Fanning, Phillips and Molnar Engineers)

` ;

Mr. Felix Grucci, Jr., Operations Manager

The Site Inspection at the former New York Pyrotechnics Products, Inc. (Grucci Fireworks) included the following:

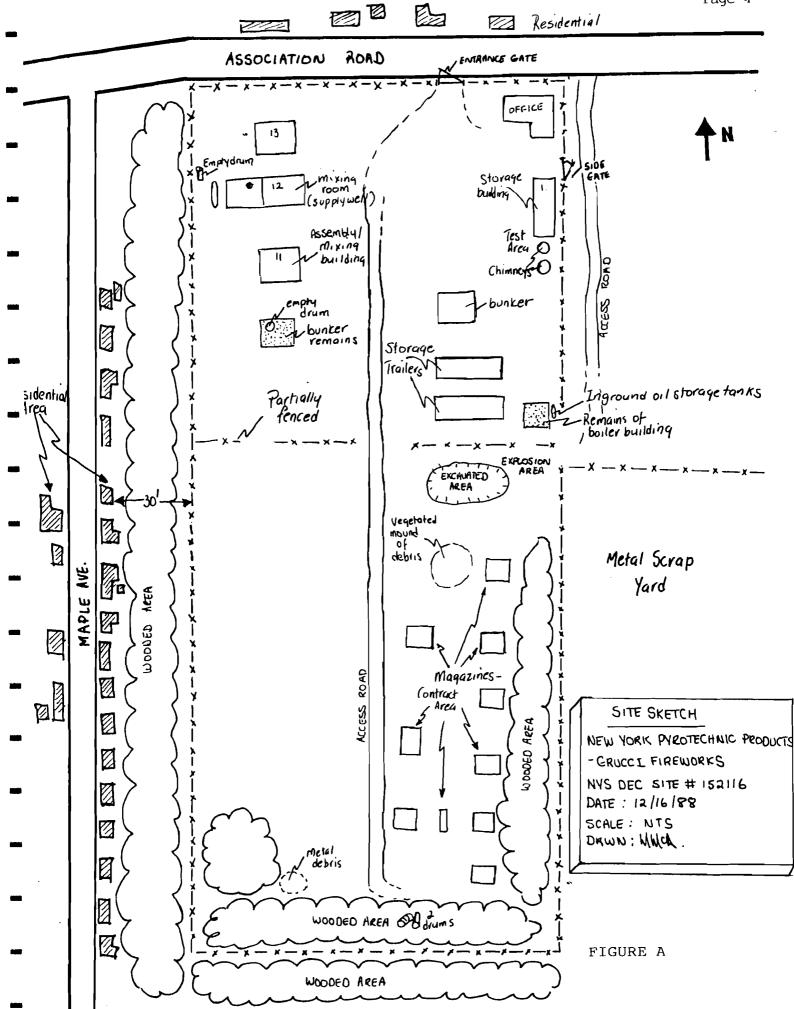
- (1) Interviewing site representatives;
- (2) Conducting ambient air monitoring onsite utilizing a HNu photoionization detector; and
- (3) Conducting a visual inspection of the site including structures on the site, distance to the nearest residence and suspicious drums and tanks; and
- (4) Photodocumentation of the site.

At 09:00 hrs, Marie McDonnell and Ed. Chen met with Dr. Kevin J. Phillips, P.E. and Mr. Mostafa M. Elsehamy of Fanning, Phillips and Molnar Consulting Engineers and later with Mr. Felix Grucci, Jr. at the present Grucci facility in Brookhaven, New York. The representatives were interviewed for the history of the site including the years of operation, nature of operations, the November, 1983 explosion and subsequent cleanup and hazardous waste characteristics and disposal.

Fanning, Phillips and Molnar Engineers became involved with the Grucci situation when the proposed location for the new site in Pine Barrens was being evaluated. Mr. Phillips and Mr. Elsehamy confirmed accounts of the explosion of November, and subsequent cleanup, obtained through YEC's file search. Mr. Felix Grucci, Jr. described the history of the site. The area on which the site is located on was originally woodland, bought by Felix Grucci, Sr. in 1926 which he cleared and erected buildings necessary for the manufacture of pyrotechnics. From 1926, the fireworks industry grew until the explosion in 1983, in which two family members were killed. The manufacturing of fireworks is a very simple process in which small batches of raw chemicals are blended together to powdered form and water added to give a dough which is then molded into cubes, stars or pellets. These are then inserted into aerial shells. Some of the chemicals such as Paris Green, Red Arsenic, White Arsenic, Red Lead, Barium Nitrate and Barium Chlorate are used to produce colored flames. It is essentially a dry operation with no waste material discharged.

Mr. Phillips and Mr. Elsehamy accompanied us to the site on Association Road in Bellport (see Figure A, Site Sketch). The site is approximately 13 acres with the total building area less than 5% of the site. The site is relatively flat with occasional mounds of wood and metal debris from the blast. Maple Avenue, where many homes were damaged in the explosion lies approximately 200 feet outside the western boundary of the site. The site is partially fenced and divided into two areas as shown in site sketch. The southern block of the site consists of a series of small block house structures or bunkers for the storage of chemicals. This block of magazines was used for Army and Bulova contracts.

The northern section of the property was the assembly and mixing area and consists of a number of frame buildings. The results of the explosion are particularly evident here. The excavation of soils has left a 50 ft x 50 ft depression in the ground surface. The area south of the office was used mainly as a storage and testing area. Building #1 contained many empty 10, 35 and 55 gallon drums. Two chimney type structures adjacent to storage building #1 were used for testing and timing fireworks. Building #13, a small frame building contained three 55 gallon drums, one of which was open and full of black granular solid. Buildings #11 and #12 were both used as assembly and mixing rooms. Stacked trays of aerial shells lined the walls of these



buildings with wooden tables and trays both outside and inside used for mixing and drying the colored stars and pellets. Building #12 contained an oven for drying pellets and also a small supply well. The two storage trailers north of the excavated hole contained mainly tape, paper and electrical wires used in packaging. Two empty, rusted and deformed 55 gallon drums were found in the woods near the southern boundary of the site blown to this location by the blast. All bunkers, assembly and mixing buildings all have wooden floors designed so as to contain any spillage of chemicals which could be swept up and reused. Valves to two underground oil storage tanks ,one near the eastern boundary and one near the western boundary of the property were noted. However, the site representatives had no knowledge of any contents or previous usage.

During the site inspection, no suspicious hazardous waste disposal areas were detected. Photodocumentation of the site inspection is presented in Appendix A. Air monitoring was conducted throughout the site upwind and downwind of the areas of concern utilizing a HNu photoionization detector. No readings above background were noted during the site visit.

Reference 4

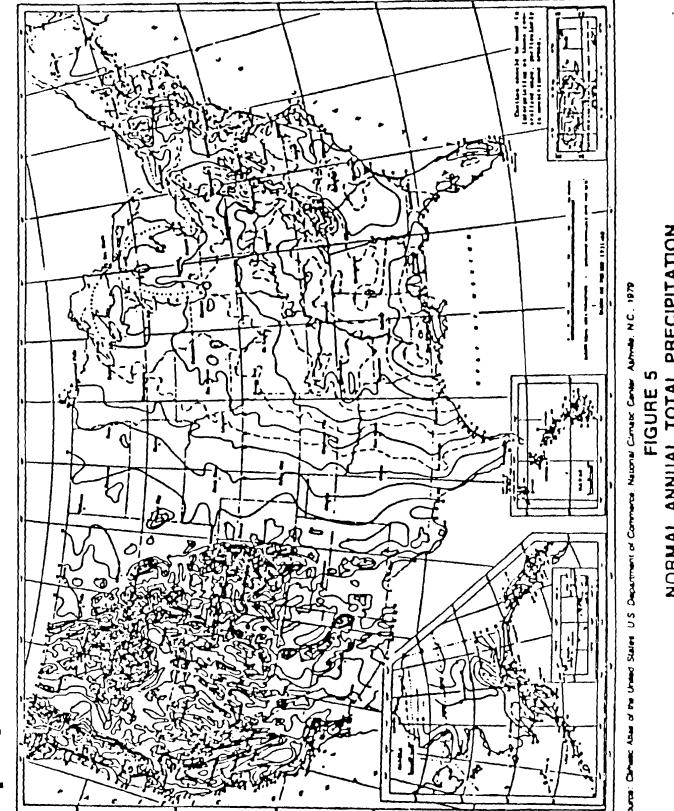
Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

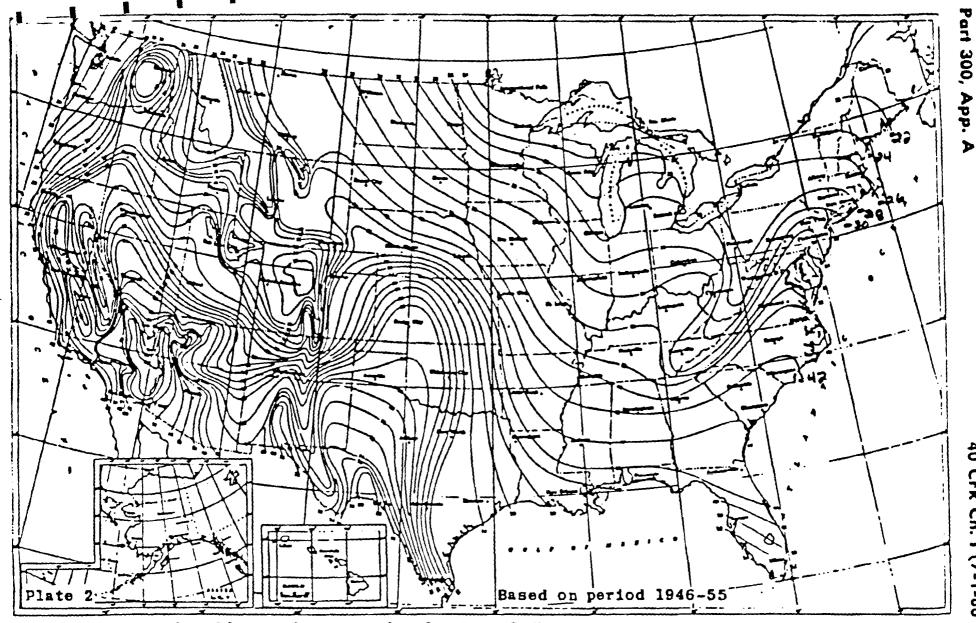
Originally Published in the July 16, 1982. Federal Register

United States
Environmental Protection
Agency

1984



PRECIPITATION FIGURE 5 NORMAL ANNUAL TOTAL (INCHES)



Source: Climate Allies of the United States, U.S. Department of Commerce, National Climate Center, Ashwile, N.C., 1979. FIGURE 4

MEAN ANNUAL LAKE EVAPORATION (IN INCHES)

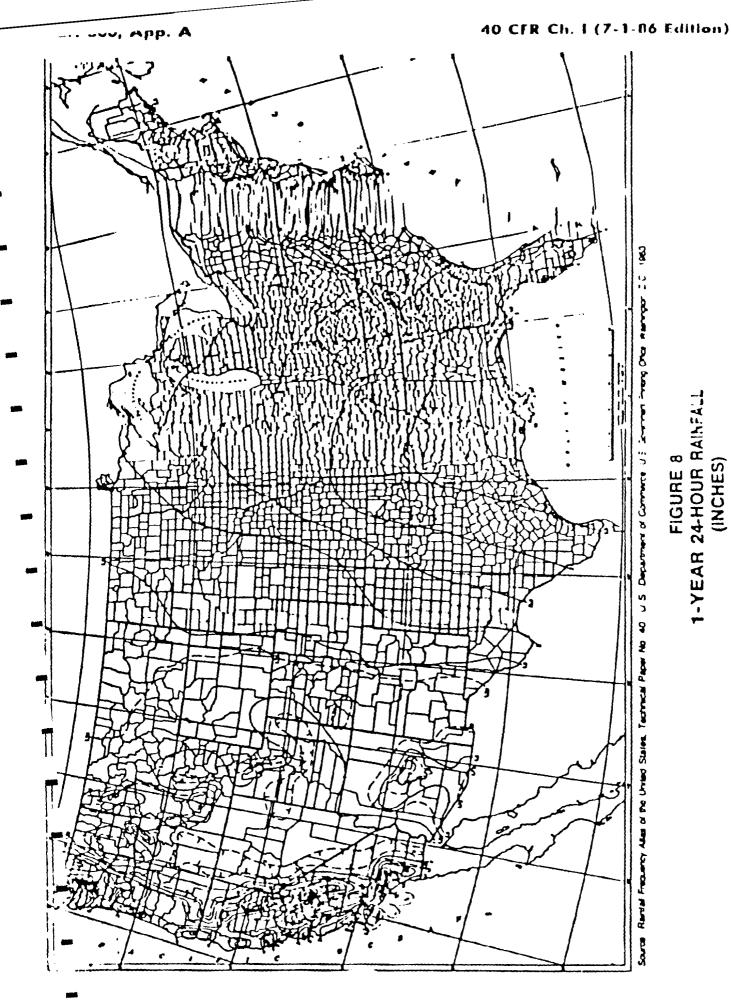


FIGURE 8
1-YEAR 24-HOUR RAINFALL (INCHES)

Reference 5	

SOIL SURVEY OF

Suffolk County, New York



SUFFOLK COUNTY SOIL & WATER CONSERVATION DISTRICT

Peronic Plaza 154 Old Country Road, Route 58 Riverhead, N.Y. 11901 Phone: 516-727-2315



United States Department of Agriculture Soil Conservation Service in cooperation with Cornell Agricultural Experiment Station

SURVEY DATA Dx Dx Stony St

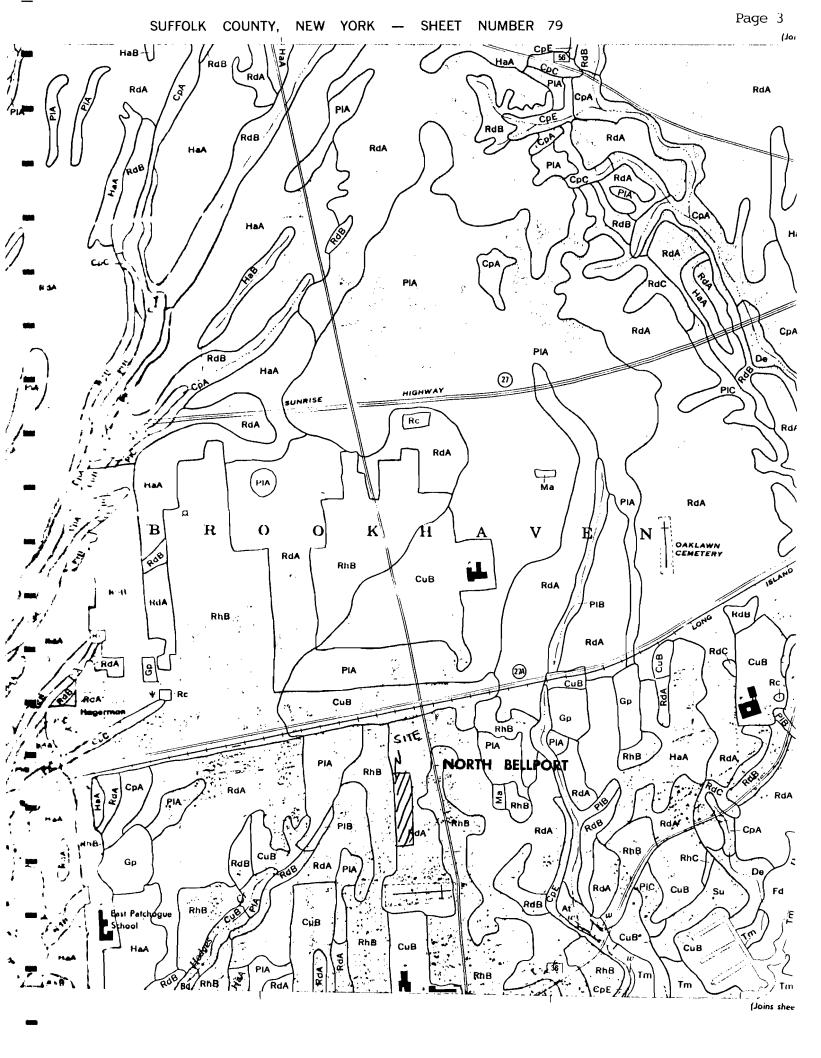
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### SOIL LEGEND

The first capital letter is the initial one of the soil name. A second capital letter,  $A,\,B,\,C,\,D,$  or E, shows the slope. Most symbols without a slope letter are those of nearly level soils but same are for land types that have a considerable range of slope. A final number, 3, in the symbol shows that the soil is eroded.

| SYMBOL                            | NAME                                                                                                                               |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Aı                                | Assion sand                                                                                                                        |
| Вс                                | Beaches                                                                                                                            |
| HJ                                | Berryland mucky sand                                                                                                               |
|                                   | Bridgehampton silt loam, 0 to 2 percent slopes                                                                                     |
| BgA<br>BgB                        | Bridgehampton sitt loam, 2 to 6 percent slopes                                                                                     |
| 13913                             | Bridgehampton sitt toom, till substratum, 2 to 6 percent slopes                                                                    |
| BbC                               | Bridgehampton silt toom, till substratum, 6 to 12 percent stopes                                                                   |
| Bm.                               | Bridgehampton silt loam, graded                                                                                                    |
|                                   |                                                                                                                                    |
| Ca .                              | Conadice silt loam                                                                                                                 |
| CpA                               | Carver and Plymouth sands, 0 to 3 percent slopes                                                                                   |
| CpC                               | Curver and Plymouth sands, 3 to 15 percent slopes                                                                                  |
| CpE                               | Carver and Plymauth sands, 15 to 35 percent slupes                                                                                 |
| CuB                               | Cut and fill land, gently sloping                                                                                                  |
| CuC                               | Cut and fill land, sloping                                                                                                         |
| C⊌E                               | Cut and fill land, steep                                                                                                           |
| De                                | Deerfield sand                                                                                                                     |
| Du                                | Dune land                                                                                                                          |
| Es                                | Escarpments                                                                                                                        |
| Fd                                | Fill land, dredged material                                                                                                        |
| F۶                                | Fill land, sandy                                                                                                                   |
| Gp                                | Gravel pits                                                                                                                        |
| HaA                               | Haven Joam, O ta 2 percent slopes                                                                                                  |
| HoB                               | Haven loam, 2 to 6 percent slapes                                                                                                  |
| НаС                               | Haven loam, 6 to 12 percent slopes                                                                                                 |
| He                                | Haven loam, thick surface layer                                                                                                    |
| Ma                                | Made land                                                                                                                          |
| MfA                               | Montauk fine sandy loam, 0 to 3 percent slopes                                                                                     |
| MfB                               | Mantauk fine sandy loam, 3 to 8 percent slopes                                                                                     |
| MC                                | Montauk fine sandy loam, 8 to 15 percent slopes                                                                                    |
| MkA                               | Montauk silt loam, 0 to 3 percent slopes                                                                                           |
| MkB                               | Montauk silt loam, 3 to 8 percent slopes                                                                                           |
| MKC                               | Montauk silt loam, 8 to 15 percent slopes                                                                                          |
| MIB                               | Montauk sails, graded, 0 to 8 percent slapes                                                                                       |
| MIC                               | Montauk soils, graded, 8 to 15 percent slopes                                                                                      |
| MnA                               | Mantauk loamy sand, sandy variant, 0 to 3 percent slopes                                                                           |
| MnB                               | Montauk loamy sand, sandy variant, 3 to 8 percent slopes                                                                           |
| MnC                               | Montauk loamy sand, sandy variant, 8 to 15 percent slopes                                                                          |
| MnE                               | Montauk loamy sand, sandy variant, 15 to 35 percent slopes                                                                         |
| Mu                                | Muck                                                                                                                               |
| PIA                               | Plymouth loamy sand, 0 to 3 percent slopes                                                                                         |
| PIB                               | Plymouth loomy sand, 3 to 8 percent slopes                                                                                         |
| PK                                | Plymouth loamy sond, 8 to 15 percent slopes                                                                                        |
| PmB3                              | Plymouth gravelly loamy sand, 3 to 8 percent slopes, eroded                                                                        |
| PmC3                              | Plymouth gravelly loamy sand, 8 to 15 percent slopes, eroded                                                                       |
| P5A                               | Plymouth loamy sand, silty substratum, 0 to 3 percent stopes                                                                       |
| PsB                               | Plymouth loamy sand, silty substratum, 3 to 8 percent slapes                                                                       |
| Ro                                | Raynhum Loom                                                                                                                       |
| Rc                                | Recharge basin                                                                                                                     |
| RdA                               | Riverhead sandy loam, 0 to 3 percent slopes                                                                                        |
| RdB -                             | Riverhead sandy loam, 3 to 8 percent slopes                                                                                        |
| RdC                               | Riverhead sandy loam, 8 to 15 percent slopes                                                                                       |
| ReB                               | Riverhead very stony sandy loam, 3 to 8 percent slapes                                                                             |
| ReC                               | Riverhead very stony sondy loam, 8 to 15 percent slopes                                                                            |
| Radi                              | Riverhead and flaven sorts, graded, 0 to 8 percent slopes                                                                          |
| RhC<br>RpE                        | Riverhead and Haven sails, graded, 8 to 15 percent slopes.<br>Riverhead and Plymouth very bouldery soils, 15 to 35 percent slopes. |
| ScB                               | Scio silt loom, till substratum, 2 to 6 percent slopes                                                                             |
| SdA                               | Scio silt loam, sandy substratum, 0 to 2 percent slopes                                                                            |
| JUA                               | Scia silt loam, sandy substratum, 2 to 6 percent slopes                                                                            |
| SaB                               | Sudbury sandy loam                                                                                                                 |
| 2n<br>298                         |                                                                                                                                    |
| SaB                               | Tidal marsh                                                                                                                        |
| SuB<br>SuB                        | Tidal marsh<br>Urban land                                                                                                          |
| SdB<br>Su<br>Tm<br>Ur<br>Wa       |                                                                                                                                    |
| SdB<br>Su<br>Tm<br>Ur<br>Wo<br>Wd | Urban land                                                                                                                         |
| SdB<br>Su<br>Tm<br>Ur<br>Wo       | Urban land Wallington silt loam, till substratum                                                                                   |



These differences do not seriously alter their usefulness and

Raynham soils are associated with Scio and Walpole soils. They are similar to Scio soils in texture, but they have a higher seasonal water table and are more poorly drained, as is indicated by the grayer color in the solum. Also, Raynham soils lack the till substratum of some of the Scio soils, and they are thicker over sand and gravel than the sandy substratum phase of Scio soils. The B horizon of Raynham soils contains more silt and very fine sand than that of Walpole soils. Aithough Raynham soils are not associated with Wallington soils, the two are similar, but Raynham soils lack the fragipan and the compact till substratum of Wallington soils.

Raynham loam (Ro).—This is the only Raynham soil apped in the county. This nearly level soil is in lowing areas beside marshes and creeks. In many places it forms a transition between poorly drained areas and water drained areas on uplands. It is on outwash plains and moraines. Areas generally are small and irregular.

Included with this soil in mapping are wet spots of herryland soils and a very poorly drained silt loam soil. the included are soils that have a water table at a simiar depth as Raynham soils, but they lack the gray color A Raynham soils, have a slightly coarser subsoil, and we sand and gravel below a depth of 30 inches.

The hazard of erosion is slight on this Raynham soil. If this soil is used for farming, artificial drainage is

ærded.

This soil is not well suited to crops commonly grown a the county unless it is artificially drained. Because of Le position on the landscape, it is difficult to locate adequate drainage outlets. Near Southhampton, small areas I this soil were formerly cleared and used for crops, but wast of these areas are idle and are in brush. Most of other areas of this soil are wooded. This soil is better acted to woodland and to recreational areas than to Ler uses. In places, areas of this soil have been filled used as homesites. As demand for building lots acreases, more areas will be filled for use as building Capability unit IIIw-1; woodland suitability armup 4w1.

## **Eccharge** Basin

Recharge basin (Rc) is made up of basins that vary in we or of dugouts that have been dug into a porous sand gravel substratum. These basins provide for the dis-of surface water by acting as catchments and by waining the water to infiltrate the sand and gravel and mharge the ground water supply. Recharge basins are and to catch runoff from areas such as highways (fig. 13), \*\*-sing developments, or parking lots.

small basins less than 2 acres in size are indicated on and detailed map by a spot symbol, and basins larger an 2 acres are delineated and identified by the symbol · Capability unit not assigned; woodland suitability

aroup not assigned.

### Riverhead Series

The Riverhead series consists of deep, well-drained, enderately coarse textured soils that formed in a mantle d sandy loam or fine sandy loam over thick layers of carse sand and gravel. These soils occur throughout the aunty in rolling to steep areas on moraines and in level w gently sloping areas on outwash plains. These soils range from nearly level to steep; however, they generally are nearly level to gently sloping. Native vegetation consists of black oak, white oak, red oak, and scrub oak.

In a representative profile the surface layer is brown to dark brown sandy loam about 12 inches thick. The upper part of the subsoil, to a depth of about 27 inches, is strong-brown, friable sandy loam. The lower part of the subsoil is yellowish-brown, very friable loamy sand to a depth of about 32 inches. Below is yellowish-brown, friable gravelly loamy sand to a depth of about 35 inches. The substratum is very pale brown and brown loose sand

and gravel or sand to a depth of 65 inches.

Riverhead soils have moderate to high available moisture capacity. Internal drainage is good. Permeability is moderately rapid in the surface layer and in the subsoil and very rapid in the substratum. Natural fertility is low. Reaction is strongly acid to very strongly acid throughout. The response of crops to lime and fertilizer is good. The root zone is mainly in the upper 25 to 35 inches. In many places where these soils have been farmed, a plowpan is in the lower part of the surface layer and in the upper part of the subsoil.

Representative profile of Riverhead sandy loam, 0 to 3 percent slopes, 0.9 mile south of State Route 25, 0.3 mile north of junction of County Road 21 and Longwood Road in Brookhaven, "Camp Wilderness, Boy Scouts of

America":

Ap-0 to 12 Inches, brown to dark-brown (10YR 4/3) sandy loam; weak, fine, granular structure; friable; many fine roots in upper part; moderate to strong, platy, firm plowpan in lower 4 inches; strongly acid; abrupt, smooth boundary.

B2-12 to 27 inches, strong-brown (7.5YR 5/6) sandy loam; very weak, medium, subangular blocky structure that parts to weak, fine granular; friable; a few fine roots; many fine pores; less than 5 percent gravel;

strongly acid; clear, wavy boundary.

B31-27 to 32 inches, yellowish-brown (10YR 5/4) loamy sand; very weak, fine, granular structure; very fria-ble; a few fine roots; 10 percent gravel; strongly acid; abrupt, smooth boundary.

IIB32-32 to 35 inches, yellowish-brown (10YR 5/4) gravelly loamy sand; massive; friable; a few fine roots; 30 percent gravel; strongly acid; abrupt, smooth bound-

IIIC1-35 to 40 inches, brown to dark-brown (7.5YR 4/4) sand; single grain; loose; 10 percent fine gravel; strongly acid; abrupt, smooth boundary.

IIIC2—40 to 65 inches, very pale brown (10YR 7/4) coarse and medium sand that contains 2-inch layers of gravel, 8 to 24 inches apart; single grain; loose; strongly acid.

The solum ranges from 22 to 36 inches in thickness. It corresponds in depth to the upper boundary of the underlying coarse sand and gravel. The content of gravel or stones ranges from 2 to 15 percent, by volume, in the upper part of the solum and from 5 to 35 percent in the substratum. The content of gravel in the solum is higher in soils that have a thin solum. In places the solum is more than 30 inches thick, and streaks and pockets of olive-gray colors are present immediately above the sand or sand and gravel substratum. Reaction ranges from strongly acid to very strongly acid throughout.

In places these soils have an Ap horizon that ranges from very dark grayish brown (10YR 3/2) to brown or dark brown (10YR 4/3). The At horizon ranges from black (10YR

2/1) to dark grayish brown (10YR 4/2).

The B horizon ranges from brown or dark brown (7.5YR 4/4) to light olive brown (2.5Y 5/6). Texture is dominantly sandy loam, but it ranges to fine sandy loam. Structure is massive, or very weak subangular blocky. Consistence ranges from friable to very friable.

82 SOIL SURVEY

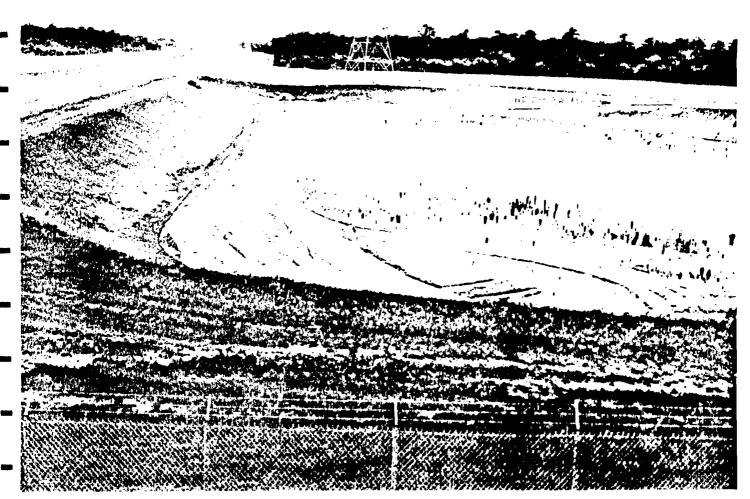


Figure 13.—Recharge basin that catches runoff from adjoining highway. Water comes into the basin through the pipe at the back corner.

Many Riverhead soils have a thin loamy sand horizon in the lower part of the B horizon. This horizon has the same color range as the upper part of the B horizon, and it is as much as 35 percent coarse fragments.

The C horizon ranges from brown or dark brown (7.5YR 4/4) to yellow (2.5Y 7/6). Texture is sand or sand and gravel, and it is generally stratified.

Riverhead soils are near Haven, Plymouth, Sudbury, and Walpole soils. Riverhead soils are sandier throughout the solum than Haven soils, and they are less sandy throughout the solum than Plymouth soils. Sudbury soils are moderately well drained, and Walpole soils are somewhat poorly drained or poorly drained.

Riverhead sandy loam, 0 to 3 percent slopes (RdA).—
This soil has the profile described as representative of the series. It generally is on outwash plains, and the areas are large and uniform. Where this soil occurs on outwash plains, it generally has slope characteristics of this landform. Slopes are undulating in places. A few small, irregular areas are on moraines.

Included with this soil in mapping are small areas of Sudbury soils that are less than 1 to 2 acres in size. Also included are areas of soils near Bridgehampton that have a profile similar to that of this soil, except that at a depth of about 30 inches they have layers of gray and strong-brown silt loam 1 to 2 feet thick. Also included are areas of Haven and Plymouth soils that have a texture marginal to sandy loam and areas of soils that have a loam or fine sandy loam surface layer and a sandy loam subsoil. Areas of Montauk soils on moraines that have a very weak fragipan formed in loose sandy till are included.

The hazard of erosion is slight on this Riverhead soil. This soil is limited only by moderate droughtiness in the moderately coarse textured solum. It tends to develop a plowpan if it is intensively farmed.

This soil is well suited to all crops commonly grown in the county, and it is used extensively for that purpose. Most areas in the western part of the county, however.

TABLE 5.—Estimated engineering

|                                                          | Depth to<br>seasonal    | Depth from surface (typical profile)  Inches 0-51 | Classification                                                                                       |                                               |                                |  |  |
|----------------------------------------------------------|-------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|--|--|
| Soil series and map symbols                              | high water<br>table     |                                                   | USDA texture                                                                                         | Unified                                       | AASHO                          |  |  |
| Raynham: Ra                                              | Feet<br>1/2-1/4         |                                                   | Silt loam to very fine sandy loam.                                                                   | ML, ML-CL                                     |                                |  |  |
| *Riverhead: RdA, RdB, RdC, ReB,                          | >4                      | 0-32                                              | Sandy loam and fine sandy                                                                            | SM                                            | A-4, A-2-                      |  |  |
| ReC, RpE. For Plymouth part of RpE, see Plymouth series. |                         | 32-65                                             | Sand, loamy sand, gravelly sand, and gravelly loamy sand.                                            | SP, SM, SW-<br>SM, SP-SM,<br>GP, GM,<br>GP-GM | A-1                            |  |  |
| Scio:<br>Sc B                                            | 1}2-2                   | 0-38                                              | Silt loam and very fine sandy                                                                        | ML, ML-CL                                     | A-4                            |  |  |
|                                                          |                         | 38-61                                             | loam. Fine sandy loam and gravelly fine sandy loam.                                                  | SM, SM-SC,<br>GM, GM-<br>GC                   | A-4, A-2-                      |  |  |
| SdA, SdB                                                 | 1}4-2                   | 0-35                                              | Silt loam and very fine sandy loam.                                                                  | ML, ML-CL                                     | A-4                            |  |  |
|                                                          |                         | 35-51                                             | Gravelly sand and sand                                                                               | SP, SM, SW-<br>SM, SP-SM,<br>GP, GM,<br>GP-GM | A-1, A-3,<br>A-2-4             |  |  |
| Sudbury: Su                                              | 11/4-2                  | 0-24                                              | Sandy loam and fine sandy                                                                            | SM                                            | A-2-4, A-                      |  |  |
|                                                          |                         | 24-51                                             | loam. Loamy sand, sand and gravel                                                                    | SP, SM, SP-<br>SM                             | A-1, A-3,<br>A-2-4             |  |  |
| Wallington: Wa                                           | 1/2-11/2                | 0-18                                              | Silt loam and very fine sandy loam.                                                                  | ML, ML-CL                                     | A-4                            |  |  |
|                                                          |                         | 18-38                                             | Silt loam and very fine sandy loam.                                                                  | ML, ML-CL                                     | A-4                            |  |  |
|                                                          |                         | 38-47                                             | Silt loam and very fine sandy loam.                                                                  | ML, ML-CL                                     | A-4                            |  |  |
|                                                          |                         | 47-60                                             | Fine sandy loam, sandy loam,<br>gravelly fine sandy loam,<br>gravelly sandy loam, and<br>loamy sand. | SM, GM, SM-<br>SC, GM-<br>GC, SW-SM           | A-1, A-2-<br>A-4               |  |  |
| Walpole: Wd                                              | 1/2-11/2                | 0–26                                              | Sandy loam and fine sandy loam.                                                                      | SM                                            | A-2, A-4                       |  |  |
|                                                          |                         | 26-52                                             | Sand and gravelly sand                                                                               | SP, SP-SM,<br>SM                              | A-1, A-3,<br>A-2-4             |  |  |
| Wareham: We                                              | } <b>\</b> -1} <b>\</b> | 0-29<br>26-52                                     | Loamy sand to sand<br>Sand and gravelly sand                                                         | SM<br>SP, SP-SM,<br>SM                        | A-2, A-4<br>A-1, A-3,<br>A-2-4 |  |  |
| Whitinan: Wh                                             | 0-1/2                   | 0-14                                              | Sandy loam and loam                                                                                  | ML, ML-CL,<br>SM,<br>SM-SC                    | A-4, A-2-                      |  |  |
|                                                          |                         | 14-37                                             | Sandy loam and loam                                                                                  | ML, ML-CL,<br>SM,                             | A-4, A-2-                      |  |  |
|                                                          |                         | 37-50                                             | Sandy loam, loamy sand,<br>gravelly sandy loam, and<br>gravelly loamy sand.                          | SM-SC<br>SM, SM-SC,<br>GM, GM-<br>GC          | A-2-4, A-                      |  |  |

Available moisture capacity is usually calculated to a depth of approximately 30 inches.

Unit He has a surface layer of accumulated silty inwash material, 12 to 30 inches thick, that has a slightly higher content of organ

# SUFFOLK COUNTY, NEW YORK

of the soils—Continued

| Course<br>teartois                  | Percen                        | tage less than 3 | inches passing s       |                    | Available                  |                                     |                       |  |
|-------------------------------------|-------------------------------|------------------|------------------------|--------------------|----------------------------|-------------------------------------|-----------------------|--|
| mere than 3<br>means in<br>descript | t.ali 3 No. 4 (4.7 No. 10 (2. |                  | No. 40 (0.42 mm).      | No. 200 (0.07 mm). | Permeability               | moisture<br>capacity <sup>1</sup>   | Reaction              |  |
| Percent                             | 90-100                        | 85-100           | 75-95                  | 50-80              | Inches per hour 0. 20-2. 0 | Inches per inch of soil 0. 14-0. 20 | pH value<br>4. 5–5. 8 |  |
| 0-5                                 | 80-100                        | 75-100           | 55-75                  | 20-45              | 2. 0-6. 3                  | 0. 11-0. 15                         | 4. 5-5. 8             |  |
| 0-5                                 | 45-95                         | 40-90            | 15-45                  | 0–15               | >6. 3                      | 0. 02-0. 07                         | 4. 5-5. 8             |  |
|                                     | 90–100                        | 85-100           | <b>7</b> 5– <b>9</b> 5 | 50–80              | 0. 63-2. 0                 | 0. 14-0. 20                         | 4. 5-5. 5             |  |
| 0–5                                 | 45-90                         | 45-85            | 35-70                  | 20–45              | 0. 20–. 63                 | [                                   | 4. 5-5. 5             |  |
|                                     | 90–100                        | 85-100           | 75-95                  | 50-80              | 0. 63-2. 0                 | 0. 14-0. 20                         | 4. 5-5.               |  |
| 0-5                                 | 45-90                         | 45-85            | 25-60                  | 0–15               | >6. 3                      |                                     | 4. 5-5.               |  |
|                                     | 85–100                        | 80–100           | 50-75                  | 25-45              | 0. 63-6. 3                 | 0. 12-0. 16                         | 4, 5-5.               |  |
|                                     | 60–90                         | 50–85            | 25-60                  | 0-15               | >6. 3                      | 0. 02-0. 06                         | 4. 5-5.               |  |
|                                     | 95–100                        | 90–100           | 80–100                 | 50-80              | 0. 63-2. 0                 | 0. 15-0. 20                         | 4. 5-5.               |  |
|                                     | 95-100                        | 90-100           | 80-100                 | 50-80              | < 0. 63                    | 0. 08-0. 12                         | 4. 5-5.               |  |
|                                     | 95-100                        | 90-100           | 80–100                 | 50–80              | 0. 63-2. 0                 |                                     | 4. 5-5.               |  |
| 0–5                                 | 55-90                         | 50-85            | 30-70                  | 10-40              | 0. 20-2. 0                 |                                     | 4. 5-5.               |  |
|                                     | 85-100                        | 80–100           | 55–80                  | 25-50              | 2. 0-6. 3                  | 0, 12-0, 15                         | 4, 5–5.               |  |
|                                     | 70–90                         | 65-90            | 35-65                  | 0-15               | >6. 3                      | 0. 03-0. 04                         | 4, 5-5.               |  |
|                                     | 85–100<br>70–90               | 80–100<br>65–90  | 55-80<br>35-65         | 25-50<br>0-15      | 2. 0-6. 3<br>>6. 3         | 0. 12-0. 15<br>0. 03-0. 04          | 4. 5-5.<br>4. 5-5.    |  |
| 0–5                                 | 80-95                         | 75–90            | 45-85                  | 25-65              | 2, 0-6. 3                  | 0. 12-0. 15                         | 4. 5-5.               |  |
| 0–5                                 | 85-95                         | 75–90            | 45-85                  | 25-65              | <0.63                      | 0. 08-0. 12                         | 4. 5-5.               |  |
| 0–5                                 | 55-95                         | 50-90            | 25-65                  | 12-35              | <0.63                      |                                     | 4. 5-5.               |  |

us greater depths than the typical profile.

LAND ReB, ReC, and RpE contain 1.5 to 50 cubic yards of stones or boulders per acre foot.



# CHEMICAL LISTING

FOR

N.Y. PYROTECHNIC PRODUCTS CO., INC.

Prepared By:

Felix J. Grucci Jr.

Information Researched By:

George Klecak Consulting Chemist BS The purpose of this report is to list all chemicals now being used by N.Y. Pyrotechnic Products Co., Inc. and any substitute chemicals that may be introduced at a later date.

This report will list the chemicals by name, chemical symbol, and use as it pertains to both the pyrotechnic industry and any other field.

All of the chemicals received will come into the factory in packages or containers approved by the E.P.A.\*

All deliveries will be made by professional carriers or in our company trucks, both of which will conform to the D.O.T.\*\* and the E.P.A. regulations for transporting chemicals.

All storage of chemicals will be in buildings or containers with concrete floors or wood floors designed in such a way that if a spill occurs, the chemicals will be contained and able to be swept up without it getting into the ground water supply.

All assembly rooms used for the mixing of chemicals will be designed in such a manner that in the unlikelyhood of a spill, the spill will be contained and able to be swept up and chemicals reused.

<sup>\*</sup> E.P.A. - Environmental Protection Agency

<sup>\*\*</sup> D.O.T. - Department of Transportation

# CHEMICALS USED BY NYPP

454 gms = 11b 946.3 mls = 1 U.S. quart

# 1. ALUMINIUM POWDER - Al

nonsoluble in water USE - manufacturing of airplanes and cooking utensils

PYROTECHNIC USE - fuel

2. ANTIMONY SULFIDE - SB2S3

practically insoluble in water

PYROTECHNIC USE - fuel

# 3. BARIUM CHLORATE - BaC103

soluble in water
poison
Solubility = 1 gm per 3½ mls

PYROTECHNIC USE - fuel, produce a green fire

# 4. BARIUM NITRATE - Ba(NO<sub>3</sub>)

soluble in water 1 gm in 10 mls poison

PYROTECHNIC USE - fuel, produce a green fire

# 5. BLACK COPPER OXIDE - CuO

insoluble in water USE - to teniafuge

- a resolvent use for treatment of tapeworm and chronic indurated glands and vericose ulsers

PYROTECHNIC USE - produce a blue fire

(con't)

6. CHARCOAL - C

nonsoluble in water
USE - as a filtering device

PYROTECHNIC USE - fuel, gold colors

7. CYROLITE - AlF6Na

nonsoluble in water
USE - in the Aluminium industry for deposition of Aluminium metels from Bauxite

PYROTECHNIC USE - produce a yellowish gold fire

8. DEXTRIN -  $C_6H_2C_6$ .  $H_2O$ 

soluble in water

WSE - pharmaceutically in the preparation of pills and plasma extender

PYROTECHNIC USE - binding agent

9. LACTOSE -  $C_{12}H_{22}O_{11}H_{20}$ 

soluble in water, milk sugar USE - nutrative - gives energy

PYROTECHNIC USE - cool the burning temperatures of certain compositions

10. PARTS GREEN - C4H6As6Cu4O16

nonsoluble in water poison USE - as an insecticide

PYROTECHNIC USE - produce a vivid blue flame

11. POTASSIUM CHLORATE - KCLO3

soluble in water
l gm in 16½ mls
USE - military use this in certain ordinance formulas

PYROTECHNIC USE - oxidizer chlorine donor

12. POTASSIUM NITRATE - KNO3

soluble in water
USE - diuretic in pharmaceutically use

PYROTECHNIC USE - oxidixing agent

13. POTASSIUM PER CHLORATE - KC10

Soluble in water 1 gm in 65 mls toxicity = 5 gms

PYROTECHNIC USE - oxidizer chlorine donor

4. RED GUM - N.F.V.

insoluble in water
USE - pharmaceutically as an astringent

PYROTECHNIC USE - fuel control the speed of burning

T5. ROSIN

nonsoluble in water
USE - pharmaceutically in the preparation of ointment and as a stiffening agent

PYROTECHNIC USE - fuel, binding agent

16. SODIUM OXALATE - Na<sub>2</sub>C<sub>2</sub>O<sub>4</sub>

soluble in water 1 gm in 27 mls

PYROTECHNIC USE - produce a yellow fire

7. SODIUM SALICYLATE - HO.C<sub>6</sub>H<sub>4</sub>.COONa

soluble in water
1 gm in 9 mls of H<sub>2</sub>O
USE - as an antirheumatic
as a mild antiseptic analgesic

PYROTECHNIC USE - produce a whistling sound

18. STEARIC ACID - CH<sub>3</sub>.(CH<sub>2</sub>)<sub>16</sub>.COOH

slightly soluble in water USE - as suppositories coating enteric pills

PYROTECHNIC USE - to control the temperature in certain pyro. compositions

(con't)

# 19. STRONTIUM CARBONATE - SrCO3

soluble in water 1 gm in 100,000 mls USE - to increase blood coagulation

PYROTECHNIC USE - produce a red fire

# :0. STRONTIUM NITRATE - Sr(NO<sub>3</sub>)<sub>2</sub>

soluble in water
USE - pharmaceutical field for treatment of articular rheumatism

PYROTECHNIC USE - fuel - red fire

### 21. SULFER - S

insoluble in water USE - in pharmaceutical preparations ie. sulfer pills

PYROTECHNIC USE - fuel

## 22. TITANIUM - T

nonsoluble in water
USE - in aircraft products

PYROTECHNIC USE - used in aerial flash salutes to increase sound level and create a visual effect

# YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203

October 19, 1988

Mr Robert Bowen Suffolk County Water Authority Sunrise Highway and Pond Road Oakdale, NY 11769

Dear Mr Bowen,

YEC, Inc. is under contract to New York State Department of Environmental Conservation Hazardous Waste Remediation Division to conduct Phase I Investigation on New York Pyrotechnics Company Inc. (Grucci Site) in Association Road, Bellport, Long Island (see attached Quadrangle map for location). We understand that two of your well fields are within three miles radious of the above site. We need your assistance in providing the following informations.

- 1. Approximately, how many people are served by you ?
- 2. Where do you derive your water (eg: Groundwater, etc.)?

We would appreciate, if you could send us the information at your earliest convenience.

Thanking you.

Sincerely yours

Ms. Ari Selvakumar Staff Engineer YEC, Inc.



# SUFFOLK COUNTY WATER AUTHORITY

Leon J. Campo, Chairman Melvin M. Fritz, M.D., Member Matthew B. Kondenar, Secretary James T.B. Tripp, Member Michael E. White, Member Administrative offices: Oakdale, Long Island, N.Y. 11769 Area 516-589-5200

November 1, 1988

Ms. Ari Selvakumar Staff Engineer YEC, Inc.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, New York 10989

Re: Your letters of September 20, October 6, and October 19, 1988.

Dear Ms. Selvakumar:

Please be advised that the Suffolk County Water Authority has twenty three active wells falling within the three mile radius around the Indian Head Road (Smithtown) landfill.

The distribution system of the Suffolk County Water Authority portion of the area in this three mile radius is completely integrated and therefore it cannot be determined as to exactly how many customers are served by these wells. Furthermore, some of the area is served by Smithtown Water District. However, it is estimated that approximately 48,000 people are served by the Authority at this time.

Information regarding contamination of Authority wells must be requested from the laboratory located at this address. Address your correspondence to Mr. Patrick J. Dugan, Chief Chemist. You will have to be more specific about what you mean by contamination.

- The Authority keeps no file data on private wells. Therefore, their location and status is unknown.
- The Authority has sixteen active wells within a three mile radius around the County Fire Training Area in Westhampton. It is estimated that approximately 6,000 people are served by these wells.
- The Authority has three well fields within a three mile radius around the New York Pyrotechnic Products Company. It is estimated that approximately 19,000 people are served by the wells at these sites.

It should be noted that  $\underline{\text{all}}$  Suffolk County Water Authority water is groundwater, supplied from wells.

If we can be of any further help, please advise.

Very truly yours,

E.J. Rosavitch, P.E. Acting Chief Engineer

EJR:wlb

cc: P.J. Dugan

S.R. Dassler

# YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203

October 19, 1988

Mr Stanley Beck General Manager Swan Lake Water Corporation 600 Old Country Road Garden City, NY 11530

Dear Mr Beck,

YEC, Inc. is under contract to New York State Department of Environmental Conservation Hazardous Waste Remediation Division to conduct Phase I Investigation on New York Pyrotechnics Company Inc. (Grucci Site) in Association Road, Bellport, Long Island (see attached Quadrangle map for location). We understand that your well field is within three miles radious of the above site. We need your assistance in providing the following informations.

- 1. Approximately, how many people are served by you ?
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We would appreciate, if you could send us the information at your earliest convenience.

Thanking you.

Sincerely yours

Ms. Ari Selvakumar Staff Engineer YEC, Inc.

# YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203

October 19, 1988

Mr Stanley Beck General Manager Swan Lake Water Corporation 600 Old Country Road Garden City, NY 11530

Dear Mr Beck,

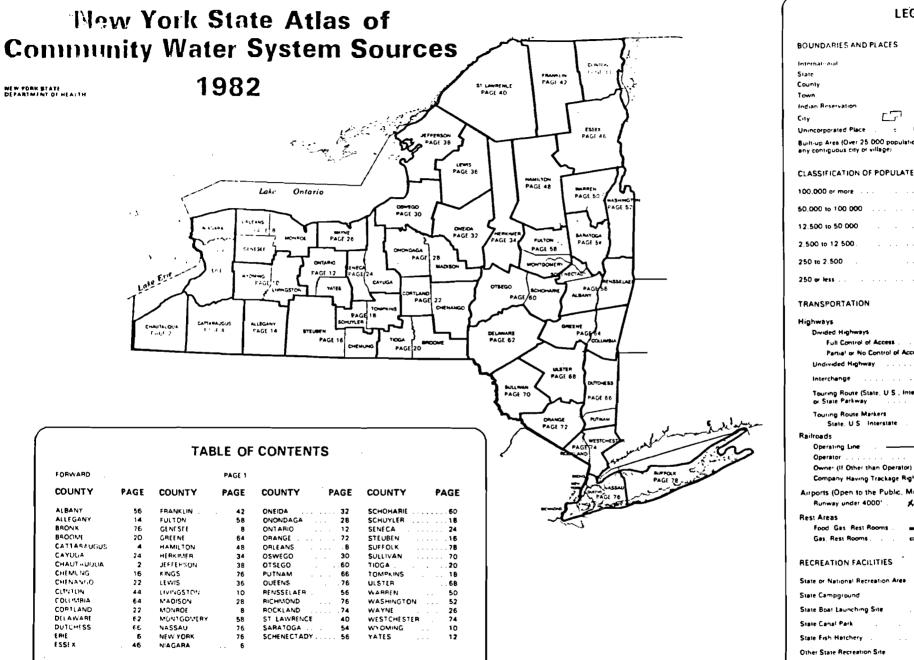
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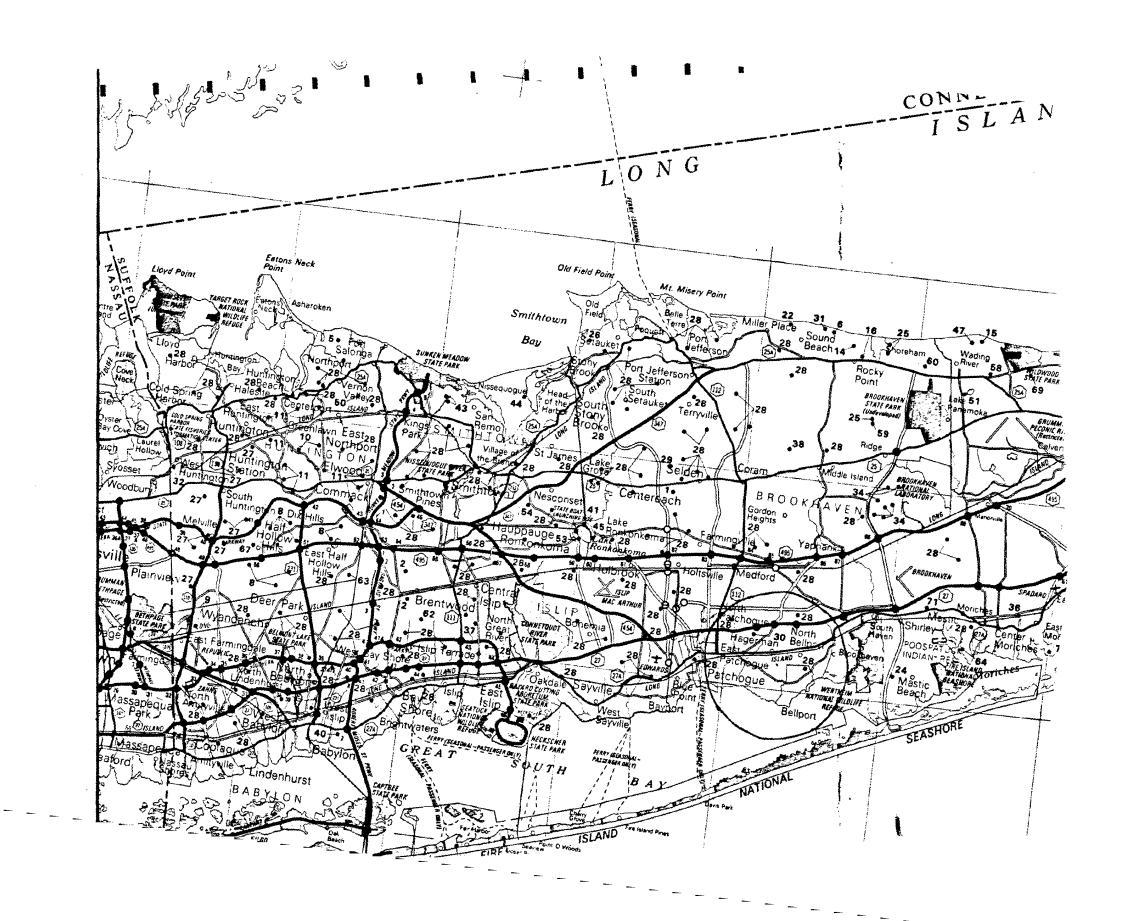
Sincerely yours

As Ari Selvakuman staff Engineer EC, Inc.



| BOUNDARIES AND PLACES                                                              |                                                |
|------------------------------------------------------------------------------------|------------------------------------------------|
| Internal-mol -                                                                     |                                                |
| State -                                                                            |                                                |
| County -                                                                           |                                                |
| Town                                                                               |                                                |
| Indian Reservation                                                                 | <u>-</u> -                                     |
| City Village                                                                       | _ · · · · · · · · · · · · · · · · · · ·        |
| Unincorporated Place . c Federal Reservat                                          | Hon                                            |
| Built-up Area (Over 25 000 population including<br>any contiguous city of village) | •                                              |
| CLASSIFICATION OF POPULATED PLACES                                                 | VOLUCED                                        |
| 100,000 or more                                                                    | YONKER                                         |
| 30.330 13 13 33 33 34 34 34 34 34 34 34 34 34 34 34                                | Levittow                                       |
| 12.500 to 50 000                                                                   | Poughkeeps  Hampton B.:                        |
| 2,500 to 12 500.                                                                   | Bores                                          |
| 250 to 2.500                                                                       | . BC 1-1                                       |
| 250 or less                                                                        |                                                |
| TRANSPORTATION                                                                     |                                                |
| Highways .                                                                         |                                                |
| Divided Highways                                                                   | <b>€</b> € € € € ₹ ₹ ₹ ₹ € € € € € € € € € € € |
| Full Control of Access                                                             |                                                |
| Partial or No Control of Access                                                    | ====                                           |
| Undivided Highway                                                                  |                                                |
| Interchange                                                                        | — O . — - O                                    |
| Touring Route (State, U.S., Interstate) or State Parkway                           |                                                |
| Touring Route Markers State, U.S. Interstate                                       | . D 🛈                                          |
| Railroads                                                                          |                                                |
| Operating Line . — Service:De                                                      | scontinued                                     |
| Operator                                                                           | MINNERS SHOWS                                  |
| Owner (If Other than Operator)                                                     |                                                |
| Company Having Trackage Rights                                                     |                                                |
| · · · · · · · · · · · · · · · · · · ·                                              |                                                |
| Airports (Open to the Public, Military) Runway under 4000' .   Runway o            | ver 4000'                                      |
| Rest Areas                                                                         |                                                |
| Food Gas Rest Rooms Rest Room                                                      | nş                                             |
| Gas, Rest Rooms Parking O                                                          | inly                                           |
| RECREATION FACILITIES                                                              |                                                |
| State or National Recreation Area                                                  | )<br>مہ                                        |
| State Campground                                                                   | _                                              |
| State Boat Launching Site                                                          |                                                |
| State Canal Park                                                                   |                                                |
| State Fish Hatchery                                                                |                                                |

| - | ID NO             | COMMUNITY WATER SYSTEM                                     | POPULATION     | SOURCE           |                  |                 | Page 2 |
|---|-------------------|------------------------------------------------------------|----------------|------------------|------------------|-----------------|--------|
|   | Munic             | cipal Community                                            |                |                  |                  |                 |        |
|   |                   | Bevon Water Corporation                                    | 1150           | Wells            |                  |                 |        |
|   | 1<br>2            | Brentwood Water District                                   | 25812          | . wells          |                  |                 |        |
| - | 3                 | Bridgehampton Water Company Captain Kidd Water Company     | 1916<br>580    | .Wells<br>.Wells |                  |                 |        |
|   | . 4<br>. 5        | Crah Meadow Beach                                          | 50             | .Wells           |                  |                 |        |
|   | 6                 | Culross Corporation (Culross Be                            | ach)104        | ,Wells           |                  |                 |        |
|   | 7<br>8            | Dering Harbor Village Dix Hills Water District             | 30000          | .Wells           |                  | •               |        |
|   | 9                 | East Farmingdale Water District                            | 7850           | .Wells           |                  |                 |        |
|   | 10                | Fishers Island Water Works Corporation                     | 250            | .Barlow.         | Middle Farms and | Treasure Ponds, | Wells  |
| _ | 11                | Greenlawn Water District                                   | 40000          | .Wells           |                  |                 |        |
| _ | 12                | Greenport Village                                          | 6851           | .Wells           |                  |                 |        |
|   | 13<br>14          | Hampton Bays Water District<br>Hawthorne - Maple Civic     |                |                  |                  |                 |        |
|   |                   | Association                                                | 50             | . Wells          |                  |                 |        |
|   | 15<br>16          | Herod Point Association North Shores Water Company         | 5000           | .Wells           |                  |                 |        |
|   | 17                | Ocean Beach Village                                        | 155            | .Wells           |                  |                 |        |
|   | 18                | Reeves Beach Water Company Riverhead Water District        | 650            | .Wells           |                  |                 |        |
| - | 19<br>20          | Roanoke Water Corporation                                  |                | Wells            |                  |                 |        |
|   | 21                | Saltaire Village                                           | 35             | .Wells           |                  |                 |        |
|   | 22<br>23          | Scott's Beach Water Company Shelter Island Heights Associa |                | .wells           |                  |                 |        |
|   | 24                | Shirley Water Works                                        | 3400.          | Wells            |                  |                 |        |
|   | 25                | Shorewood Water Corporation Soundview Association          | 10000          | . Wells          |                  |                 |        |
|   | 26<br>27          | South Huntington Water District                            | t              | Wells            |                  |                 |        |
|   | 28                | Suffolk County Water Authority                             | 900000         | Wells !          | •                |                 |        |
|   | - <u>29</u><br>30 | Sunhill Water Corporation                                  | 1485           | Wells            |                  |                 |        |
|   | 31                | Terrace-on-the-Sound                                       | 400            | .Wells           |                  |                 |        |
|   | 32                | Woodbury Triangle Corporation.                             |                | . wells          |                  |                 |        |
| _ | Non-i             | flunicipal Community                                       |                |                  |                  |                 |        |
| _ | 33                | Aqueboque Mobile Home Court                                | 120            | .Wells           |                  |                 |        |
|   | 34                | Brookhaven National Labs                                   |                |                  |                  |                 |        |
|   | 35                | Calverton Hills Owners Association                         | 897            | Wells            |                  |                 |        |
|   | 36                | Cedar Lodge Nursing Home                                   | 100            | .Wells           |                  |                 |        |
|   | 37<br>38          | Central Islip Psychiatric Centr                            | er4525         | .Wells           |                  |                 |        |
|   | 30                | Crest Hall Health Related Facility                         | 120            | .Wells           |                  |                 |        |
| - | .39               | East Quoque Mobile Estates                                 | 160 <u>.</u> . | .Wells           |                  |                 |        |
|   | 40<br>41          | Good Samaritan Hospital Greis Mobile Park                  |                |                  |                  |                 |        |
|   | 42                | Hampton Gateway Apartments                                 | 304            | Wells            |                  |                 |        |
| _ | 43<br>44          | Kings Park Psychiatric Center.<br>Knox School              |                |                  |                  |                 |        |
|   | 45                | Lake Hurst Lodge Adult Home                                | 57             | .Wells           |                  |                 |        |
|   | 46<br>47          | Leier's Mobile Park Little Flower Children's Service       |                |                  |                  |                 |        |
|   | 48                | Montauk Air Force Station,                                 |                |                  |                  |                 |        |
|   | 49                | Napeague Trailer Park                                      |                |                  |                  |                 |        |
|   | 50<br>51          | Northport VA Hospital Oak Park Trailer Park                | 3000           | .Wells           |                  |                 |        |
|   | 52                | Oakland Ridge Mobile Park                                  |                |                  |                  |                 |        |
| _ | 53<br>54          | Park Lake Rest Home                                        |                |                  |                  |                 |        |
|   | 55                | Peconic River Trailer Park                                 | 90             | .Wells           |                  |                 |        |
|   | 56<br>57          | Peconic View Adult Mobile Home Pinecrest Garden Apartments |                |                  |                  |                 |        |
|   | 58                | Ramblewood Mobile Homes                                    | 210            | .Wells           |                  |                 |        |
| _ | 59<br>60          | Ridge Rest Home                                            |                |                  |                  |                 |        |
|   | 61                | Rollin Mobile Homes                                        | 220            | .Wells           |                  |                 |        |
|   | 62                | St Joseph Convent - Long Island University                 | 1177.          | .Wells           |                  |                 |        |
| _ | 63                | Sam A Lewison Start Center,                                |                | .Wells           |                  |                 |        |
|   | 64<br>65          | South Bay Adult Home, Southampton College                  |                |                  |                  |                 |        |
|   | 66                | Speonk Mobile Home Park                                    |                |                  |                  |                 |        |
| - | 67                | Suffolk Developmental Center.                              | 3500           | .Wells           |                  |                 |        |
| _ | 68<br>69          | Three Mile Harbor Trailer Park. Thurm's Mobile Estates     |                |                  |                  |                 |        |
|   | 70                | USCG Station - Moriches                                    | 23             | .Wells           |                  |                 |        |
|   | 71                | Wes Dubicki Apartments                                     |                |                  |                  |                 |        |
| _ |                   |                                                            |                |                  |                  |                 |        |



# YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203

November 1, 1988

Mr William J. Sanok COOPERATIVE EXTENSION AGENT Agricultural Program Leader Cornell Cooperative Extension 246 Griffing Avenue Riverhead, NY 11901.

Dear Mr. Sanok,

I am in receipt of your letter dated October 12, 1988 and thanks for the information on Smithtown Landfill Site and Suffolk County Airport Fire Training Area. I need the same information on the following two sites (see attached Quadrangle maps for site location):

- 1. New York Pyrotechnics Products Company (Grucci Site) located in Association Road, Bellport, New York.
- 2. Sag Harbor Landfill located in Sag Harbor Bridgehampton Turnpike, Sag Harbor, New York.

I would appreciate, if you could send the above information at your earliest convenience.

Thanking you.

Sincerely yours

Mrs. Ari Selvakumar Staff Engineer, YEC, Inc.



### Suffolk County

Education Center 246 Griffing Avenue Riverhead, NY 11901-3086

516-727-7850 FAX 516-727-7130

November 21, 1988

Mrs. Ari Selvakumar YEC, Inc. Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989

Dear Mrs. Selvakumar:

In response to your request of November 1, I can provide you with the following information:

### A. BELLPORT SITE (former Grucci site)

- 1. There are 2 active farms within 3 miles of the New York Pyrotechnic Products Company. The Lohmann Farm is approximately 1 miles east of the site and the principle crops there are leafy vegetables including: lettuce, spinach, cabbage and radishes. Another farm is located just 3 miles northeast of the site and it is run by Ken Glover. The principle crops there are cabbage and strawberries.
- Both of these farms depend on irrigation from groundwater or crops.
- 3. The surface water directly east of the Bellport site is Beaver Dam Creek which runs through the Village of Brookhaven to the bay to become tidal wetlands. There is also Swan Lake which is west of the site and is just short of 3 miles from the location.
- 4. To my knowledge none of the surface water is used for potable or drinking water.

### B. SAG HARBOR LANDFILL SITE

- 1. There are quite a number of farms and farm fields to the southwest of the Sag Harbor landfill site. These farms are on both sides of Scuttlehole Road and extend down through Scuttlehole to Water Mill. That whole area is a fairly important production area for potatoes, grain (wheat and rye), and corn. The major crop is potatoes and crops are being produced by approximately 15 different farmers. Within the 3 mile radius, the area would include farms along the Long Island Railroad tracks and Montauk Highway which runs through Bridgehampton. Farms in that area produce a mixed selection of vegetables for roadside stands and there is one vineyard that also operates a winery just north of the railroad track and east of Sag Harbor/Bridgehampton Turnpike.
- 2. The area around Scuttlehold Road is quite sandy and a number of farmers do provide irrigation with wells in that area. In the areas just to the south of that, generally no irrigation is used unless it is mixed vegetables or some ornamental crops.

-more-

Page 2

November 21, 1988

3. In the general area of the landfill, there are a series of ponds that run north and south in outcroppings as far south as Bridgehampton. These include, from the north: Otter Pond, Lily Pond, Long Pond, Little Long Pond, Crooked Pond, Black Pond, Little Poxabogue and Poxabogue Pond. To my knowledge, none of these are used for surface drinking water.

By far this is the most complicated area because of the mixture of farms in the Scuttlehole area south to the village of Bridgehampton. Much of this land is operated by farmers who rent from absentee landowners.

Enclosed is a map of the area just north and west of Bridgehampton indicating most of the farmland. It is my understanding that the landfill site is primarily a transfer site.

If you have any questions concerning this, please do not hesitate to contact me.

Sincerely yours,

William J. Sanok

COOPERATIVE EXTENSION AGENT Agricultural Program Leader

WJS:kn Enc.



### Suffolk County

Education Center 246 Griffing Avenue Riverhead, NY 11901-3086

516-727-7850 FAX 516-727-7130

September 7, 1989

Mrs. Ari Selvakumar, Ph.D. YEC, Inc. Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989

Dear Mrs. Selvakumar:

In response to your letter of August 3, I do not know of any commercial or home use of the surface waters in the Bridgehampton area. These ponds are in the area where the surface is below the water table and this is not used for irrigation or drinking water. Historically, some of these were used for flour mills, but not for a long time.

The irrigation that is being done in the agricultural area is from wells that are into the water table.

In response to the other letter, I would estimate that in the agricultural land areas within a three-mile radius of the sites are as follows: Bridgehampton Materials -- about 1,000 acres; Joseph Menafra, South Country Road, Westhampton -- approximately 200 acres; and New York Pyrotechnics Product Company -- about 150 acres.

I'm sorry for the delay in response to your requests; but during the summer with the disease problems caused by the rainfall, our staff has been very busy.

Sincerely yours,

William J. Sanok

COOPERATIVE EXTENSION AGENT Agricultural Program Leader

WJS:kr

## COUNTY OF SUFFOLK



### PATRICK G. HALPIN SUFFOLK COUNTY EXECUTIVE

### **DEPARTMENT OF HEALTH SERVICES**

DAVID HARRIS, M.D., M.P.H. COMMISSIONER

September 26, 1988

Yec Inc.
Forestview Professional Building
Pinecrest Road
Valley Cottae, NY 10989

Dear Sir/Madam:

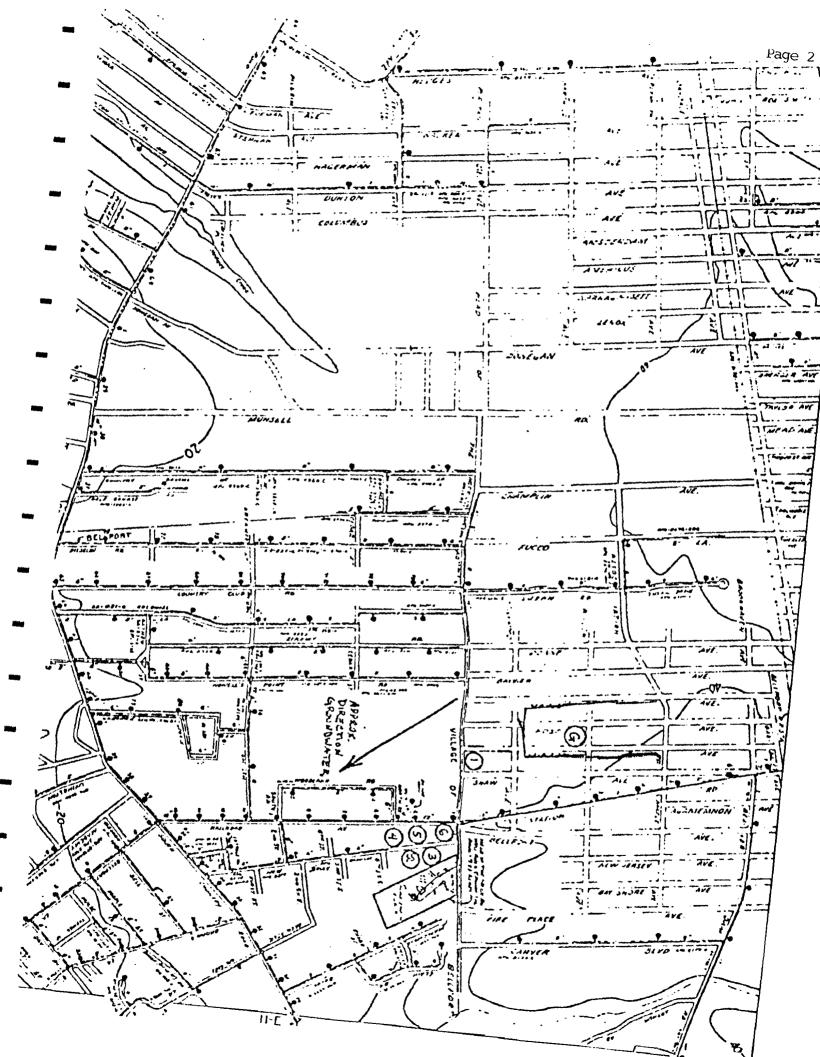
Enclosed for your information are water analyses of private wells located near the former Grucci Fireworks factory in Bellport. Please be advised that this information is being made available to you as a consultant to a state agency, and is not in the public domain. The private individuals and water analyses listed are to be treated as confidential information not for publication.

Very truly yours,

Martin Trent

Associate Sanitarian Bureau of Drinking Water

MT/jdm Enc.



# **COUNTY OF SUFFOLK**



PETER F. COHALAN SUFFOLK COUNTY EXECUTIVE

spill he

1983 - 331

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS, M.D., M.P.H. COMMISSIONER

MEMORANDUM

TO:

James Pim, P.E

FROM:

Martin Trent

DATE:

August 2, 1984

SUBJECT:

Grucci Area Wells

Attached are water analyses from eight wells downgradient of the Grucci property in Bellport. Six of the wells were just sampled December 1, 1983. No significant degradation of groundwater quality is apparent from a comparison of the analyses.

cc: Ed Romaine, Brookhaven Community Development Thomas Cramer, Brookhaven Div. of Environmental Protection

# SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES DRINKING WATER SUPPLY SECTION

SURVEY: GRUCCI - BELLPORT DATE: 7/10/54

| - |                                         |                                        |                                              |                                                |                            |                 | _                  |
|---|-----------------------------------------|----------------------------------------|----------------------------------------------|------------------------------------------------|----------------------------|-----------------|--------------------|
|   |                                         | Flynn                                  | Eleazer                                      | Eleazer                                        | موهاسك                     | Caicedo         | Regionato          |
|   |                                         | 145 Hend of                            | 55 NEW Jersey Ave                            | ST NEW                                         | MONEW -                    | Alexand Am      | Jersey Ave         |
| _ | coliform                                | <u></u>                                | 22.2                                         | Jarsey Ave                                     |                            | <u> </u>        | _<22               |
| _ | free ammonia                            | 0.02                                   | <0.02                                        | _<0.02                                         | <u> &lt;0.02</u>           | <0.02           | <u> </u>           |
|   | nitrate                                 | 2.6                                    | 2.4                                          | 1.4                                            | 5.4_                       | 3.0             | 1,2                |
|   | рН                                      | (0.)                                   | 5.5                                          | 5.5_                                           | 5.8_                       | 6.9             | 5.6                |
| - | specific conductivity .                 | 86                                     | 107                                          | 88                                             | 100                        | 123             | 50_                |
|   | chloride                                | 8                                      | 25                                           | 17                                             | 14                         | 17              |                    |
|   | sulfate                                 | <del></del> 4-                         | 17                                           | 21                                             | 15                         | 13              | 8                  |
| - | iron                                    | 20.10                                  | 0.11_                                        | 0.16                                           | 0.16                       | (0.10           | 0,44               |
|   | manganese                               | <0.05                                  | <u>&lt;0.05</u>                              | 0,12                                           | <0.05                      | Z0.05           | <0.05              |
|   | copper                                  | <0.10                                  | 0.77                                         | <0,10                                          | 0.15_                      | 0,10            | <0.10              |
|   | zinc                                    | 1,1                                    | 20.4                                         | <0.4                                           | <0.4                       | <0.4            | < 0.4              |
| - | sodium                                  | 12.6                                   | 18.1                                         | 9.7                                            | 161                        | 117             | 6.4                |
|   | ARSENIC                                 | (20.0                                  | Z20.0                                        | ₹20.0                                          | <u> </u>                   | <20.0           | <20.0              |
|   | CADMIUM                                 | ZZ.0                                   | (2.0                                         |                                                |                            | ₹2.0            | ₹2.0               |
| - | Magnesium                               |                                        |                                              | 5.6                                            |                            |                 |                    |
|   | 1 1444 44 2                             | 2.59                                   | 1.71                                         | <u>/.78</u>                                    | 3.15                       | 2.32            | 1.64               |
|   | • • • • • • • • • • • • • • • • • • • • | ·                                      |                                              | <del></del>                                    |                            |                 |                    |
| _ | • • • • • • • • • • • • • • • • • • • • |                                        |                                              |                                                | <del></del>                | <del></del>     |                    |
|   |                                         |                                        | <del></del>                                  | -/5                                            |                            |                 | <u></u>            |
|   | chloroform                              | <u> 45</u>                             | <u> </u>                                     | <u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u> | <u> </u>                   | <u>_ &lt;5_</u> | _<5_               |
|   | 1,1,1 trichloroethane .                 | <u> </u>                               | <u> </u>                                     | <u> </u>                                       | _<2_                       |                 | _<2_               |
|   | carbon tetrachloride                    | _ <u> </u>                             | _ <u> </u>                                   | _<1                                            | _ </th <th></th> <th></th> |                 |                    |
|   | 1,1,2 trichloroethylene                 | کِک                                    | _5_                                          | <u>\\ \( \) \( \) \( \) \( \) \( \)</u>        | <u></u>                    |                 |                    |
|   | chlorodibromomethane                    | $-\frac{\langle 2}{\langle 2} \rangle$ |                                              | _<2_                                           | <2                         | _ <2_           |                    |
| - | bromoform                               | _<5_                                   | _ <5                                         | <u> </u>                                       | <u> </u>                   | <5              |                    |
|   | tetrachloroethylene                     | 72                                     | _ <2_                                        | _ (2                                           | <2_                        |                 |                    |
|   | cis dichloroethylene                    | _<4                                    |                                              |                                                | _ <4_                      | <u> </u>        | <u></u>            |
| _ | freon 113                               | <u>_{</u> 4                            | <u>_                                    </u> | _ <4_                                          |                            | <4              |                    |
| _ | bromodichloromethane                    | _<3_                                   | <3                                           | <u> </u>                                       | <3                         | (3              | <3                 |
|   | 1,1,2 trichloroethane .                 | <u> </u>                               | _<5                                          | <5                                             |                            |                 | <u>{3</u> _        |
|   | benzene                                 |                                        | <u></u>                                      | <u></u>                                        | <u>&lt;3</u>               | <3              | <u></u>            |
|   | toluene                                 | _<3                                    |                                              | <3                                             |                            | _ <3            |                    |
|   | chlorobenzene                           | <u> </u>                               | _ <3_                                        |                                                | <3                         |                 | ₹3_                |
|   | ethylbenzene                            | <u></u>                                | <3                                           | <3_                                            | <3                         | <3_             | <u> </u>           |
|   | xylenes                                 | <del></del> _                          |                                              |                                                |                            |                 | <del></del>        |
|   | bromobenzene                            | _ <u> </u>                             | 74                                           |                                                | <4                         | <+              |                    |
|   | chlorotoluenes                          | <u> </u>                               |                                              |                                                | <3                         |                 |                    |
|   | 1,3,5 trimethylbenzene                  |                                        | <3                                           | <3                                             |                            | <3              | <3                 |
|   | 1,2,4 trimethylbenzene                  | <u> 73</u>                             | <del></del>                                  |                                                |                            |                 | <u> </u>           |
|   | m,p dichlorobenzene                     | _<4_                                   | र्य                                          |                                                | <4                         |                 |                    |
|   | o dichlorobenzene                       | <u> </u>                               | <u> </u>                                     | <u> </u>                                       | <u> </u>                   | <4              | <u></u>            |
|   | p diethylbenzene                        | <u> </u>                               | (3                                           |                                                | <3                         | <3              | <u> </u>           |
|   | 1,2,4,5 tetrmethylbenz                  | <u> </u>                               | <3                                           | <u> </u>                                       | <u></u>                    | <u> </u>        | <u></u>            |
|   | 1,2,4 trichlorobenzene                  | _ <u> </u>                             | _ <4                                         |                                                |                            |                 | <4_                |
| - | 1,2,3 trichlorobenzene                  | <u> </u>                               | 75                                           | <5                                             | <u>&lt;5_</u>              |                 | <u>&lt;5</u><br><3 |
|   | s tetrachloroethane                     | <u>{3</u>                              | <u> </u>                                     | <3                                             | <3_                        | <3_             | <3_                |
|   |                                         |                                        |                                              |                                                |                            |                 |                    |

### SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES DRINKING WATER SUPPLY SECTION

SURVEY: GRUZCI - BELLPURT DATE: 7/10/84

|                                         | Resident                | Resident                                     |             |             |             |             |
|-----------------------------------------|-------------------------|----------------------------------------------|-------------|-------------|-------------|-------------|
|                                         | 35 NEW                  | 68 NEW                                       | •           |             |             |             |
| coliform                                | Jersey AVE.             | Lersey AUG<br><2,2                           | ۷.          |             |             |             |
| free ammonia                            | (0.02                   | ₹0.02                                        |             |             | <del></del> |             |
| nitrate                                 | 2.1                     | 4.3                                          |             | <del></del> | <del></del> |             |
| pH                                      | $\frac{-2.1}{7.9}$      | 5.3                                          | <del></del> | <del></del> |             |             |
| specific conductivity .                 | 102                     | 110                                          |             | <del></del> | <del></del> |             |
| chloride                                | 12                      | 32-                                          |             |             | <del></del> | <del></del> |
| sulfate                                 | $-\frac{1}{7}$          | 13                                           |             |             |             |             |
| iron                                    | 0.12                    | 0.14                                         |             |             |             |             |
| manganese                               | ₹0.05                   | 0.05                                         |             |             |             |             |
| copper                                  | <0.10                   | 0.33                                         |             |             |             |             |
| zinc                                    | <0.4                    | -1/1                                         |             |             |             |             |
| sodium                                  | 8.6                     | 20,6                                         | <del></del> | <del></del> | <del></del> | ~           |
| ARFNIC                                  | 120                     | <u> </u>                                     |             |             |             | <del></del> |
| Cadmium                                 | <u> </u>                | <u> </u>                                     |             | <del></del> |             |             |
| MAGNESIUM                               | 2.53                    | 2.26                                         |             |             |             |             |
| • • • • • • • • • • • • • • • • • • • • | _2,33                   | _ <. < &                                     |             |             |             |             |
| • • • • • • • • • • • • • • • • • • • • |                         |                                              |             |             |             |             |
|                                         |                         | <del></del>                                  |             | <del></del> |             |             |
|                                         | 15                      |                                              | <del></del> |             |             |             |
| chloroform                              | <u> </u>                | <u>_                                    </u> |             | <del></del> |             |             |
| 1,1,1 trichloroethane .                 | <u> </u>                | <u> </u>                                     |             |             |             |             |
| carbon tetrachloride                    |                         |                                              |             | <del></del> |             |             |
| 1,1,2 trichloroethylene                 |                         | _ <5_                                        |             |             |             |             |
| chlorodibromomethane                    | <u> </u>                | <u></u>                                      |             |             |             |             |
| bromoform                               | _ <del>_</del> <u>_</u> |                                              |             |             |             |             |
| tetrachloroethylene                     | _<2                     | <u> </u>                                     |             |             |             |             |
| cis dichloroethylene                    |                         | <u>&lt;4</u>                                 |             |             |             |             |
| freon 113                               | _ <u>&lt;4</u>          | <del></del>                                  |             |             |             |             |
| bromodichloromethane                    | <u> </u>                |                                              |             |             |             |             |
| 1,1,2 trichloroethane .                 | _<2_                    | <u>&lt;3</u>                                 |             |             |             |             |
| benzene                                 | <u>_&lt;3</u> _         | <3                                           |             |             |             | <del></del> |
| toluene                                 | _ <del></del>           | <u> </u>                                     |             | <del></del> |             |             |
| chlorobenzene                           | _<3_                    |                                              | <del></del> |             |             |             |
| ethylbenzene                            | <3_                     | _ <3_                                        |             |             |             | <del></del> |
| xylenes                                 |                         |                                              |             |             |             |             |
| bromobenzene                            |                         | <u> </u>                                     |             |             |             |             |
| chlorotoluenes                          | _<3_                    | _<3_                                         |             |             | <del></del> |             |
| 1,3,5 trimethylbenzene                  | <3_                     | _ <3_                                        |             |             |             |             |
| 1,2,4 trimethylbenzene                  | <3_                     | <u>{3</u>                                    |             |             |             |             |
| m,p dichlorobenzene                     | _ <4_                   | <4_                                          |             |             |             |             |
| o dichlorobenzene                       |                         | <4                                           |             |             |             |             |
| p diethylbenzene                        |                         |                                              |             |             |             |             |
| 1,2,4,5 tetrmethylbenz                  | <u> </u>                |                                              |             |             |             |             |
| 1,2,4 trichlorobenzene                  | _ <4                    |                                              |             |             |             |             |
| 1,2,3 trichlorobenzene                  | <u> </u>                | <u> </u>                                     |             |             |             |             |
| s tetrachloroethane                     | <3                      | <u> </u>                                     |             |             |             |             |
|                                         |                         |                                              |             |             | <u> </u>    |             |

Reference 13

## Fanning, Phillips & Molnar

Consulting Engineers
909 MARCONI AVENUE

RONKONKOMA, NEW YORK 11779

RICHARD FANNING, P. E. (1931 1984) KEVIN J. PHILLIPS, P. E., Ph. D. GARY A. MOLNAR, P. E.

516/737-6200 718/767-3337 TELECOPIER 516/737-2410

Deecember 21, 1988

Yuan Shan Ed Chen, Ph.D, P.E. President YEC Inc. Forest View Professional Bldg. 10 Pine Crest Road Valley Cottage, N.Y. 10989

Dear Mr. Chen:

Enclosed please find the Grucci Site Location Map,

If you have any questions do not hesitate to contact me.

Very truly yours,

Mostofa El Sehamy

Fanning, Phillips and Molnar

ME/rl Attachments

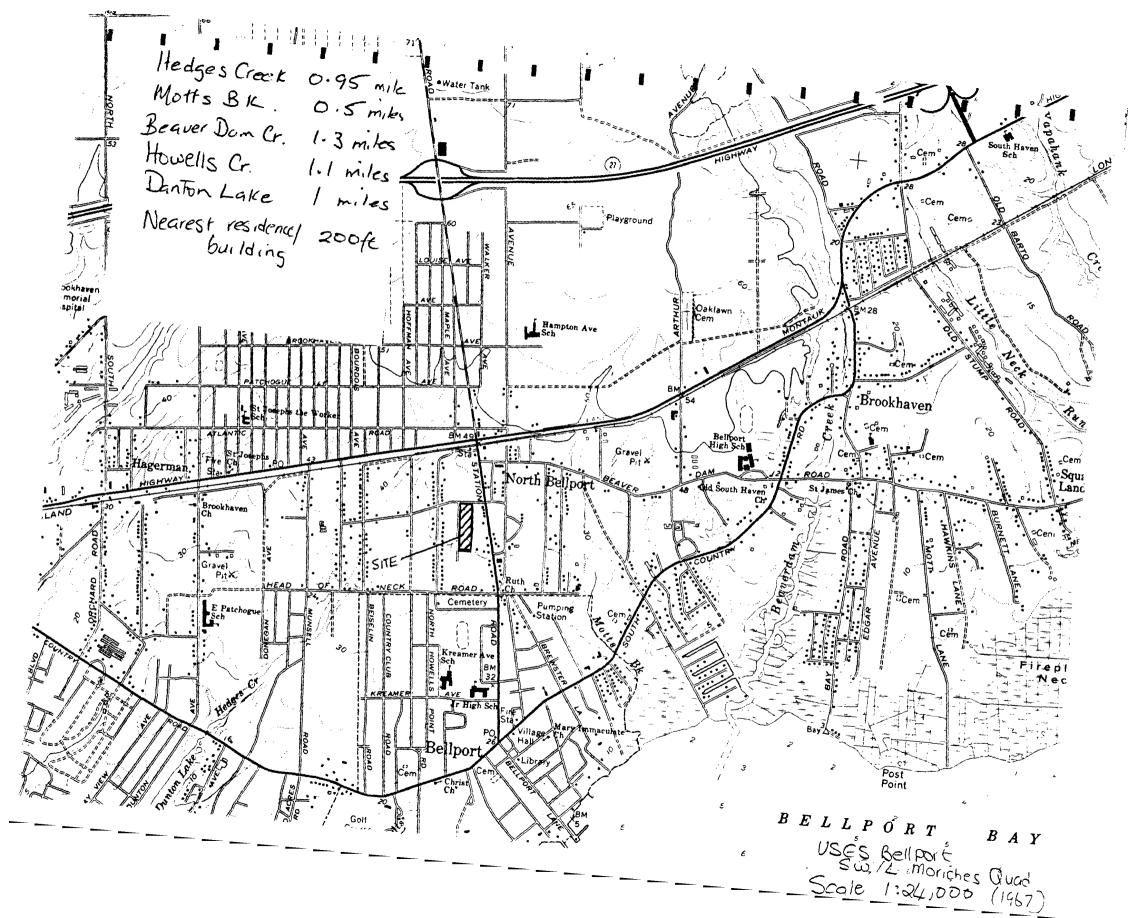
#### GRUCCI SITE

- 1) The site is partially fenced.
- 2) The size of the site is 13 acres.
- 3) The number of buildings within 2 miles of the site is greater than 100.
- 4) The distance to the nearest off-site building is about 200 feet.
- 5) The distance to commercial/industrial area is 100 feet (junk yard).
- 6) The current owner is: Felix and Concetta Grucci
- 7) The site was built in 1926.

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Reference 14



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| -        | Reference 15 |
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## YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203

November 4, 1988

Mr. Martin E. Shea
Fish and Wildlife Technician
New York State Department of Environmental
Conservation - Region 1
Building 40 - SUNY Campus
Stony Brook, NY 11794

Dear Mr. Shea

I received the information on freshwater wetlands within 3 - mile radius for Suffolk County Airport Fire Training Area and Smithtown Landfill Site. Thanks for the same. I need the information on freshwater wetlands within 1-mile radius for the following two sites (see attached Quadrangle maps for site location):

- 1. Sag Harbor Landfill
- 2. New York pyrotechnic Product Co. (Grucci site)

I would appreciate if you could send the above information at your earliest convenience.

Thanking you.

Sincerely yours

Mrs. Ari Selvakumar

Staff Engineer, YEC, Inc.

### New York State Department of Environmental Conservation Building 40—SUNY, Stony Brook, New York 11794



December 7, 1988

YEC Inc. Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989

Attention: Mrs. Ari Selvakumar

Staff Engineer

Dear Mrs. Selvakumar:

NYSDEC regulated freshwater wetlands within a 1 mile radius of the Sag Harbor landfill are listed below. A copy of the tentative freshwater wetlands map showing the approximate location of these systems is enclosed. Acreage calculations are not yet available.

Approximate % Covertypes

|        |                           |                      |          |                 | 5              |                      |
|--------|---------------------------|----------------------|----------|-----------------|----------------|----------------------|
| FWW ID | Tentative<br><u>Class</u> | Wet<br><u>Meadow</u> | Emergent | Decid.<br>Swamp | Shrub<br>Swamp | Open<br><u>Water</u> |
| SA-2   | I                         | *                    | *        | *               | *              | *                    |
| SA-3   | I                         | 10%                  | 15%      | 20%             | 5%             | 50%                  |
| SA-4   | I                         | 10%                  | 10%      | 40%             | 10%            | 30%                  |
| SA-26  | Ī                         | 50%                  |          |                 | 35%            | 15%                  |
| SA-27  | I                         | *                    | *        | *               | *              | *                    |
| SA-28  | I                         |                      |          | 5%              | 5%             | 90%                  |
| SA-30  | II                        |                      |          |                 | 50%            | 50%                  |
| SA-49  | I                         |                      |          | 80%             | 10%            | 10%                  |
| SA-57  | II                        | *                    | *        | *               | *              | *                    |
| SA-58  | II                        | *                    | *        | *               | *              | *                    |
| SA-71  | *                         |                      |          |                 |                |                      |
| SA-72  | *                         |                      |          |                 |                |                      |
| SA-73  | *                         |                      |          |                 |                |                      |
| SA-74  | *                         |                      |          |                 |                |                      |
| SA-75  | *                         |                      |          |                 |                |                      |

The following NYSDEC regulated freshwater wetlands are within a 1 mile radius of the New York Pytotechnic Produce Co. (Grucci site). I can only provide you with a copy of the field working map for this area since the tentative freshwater wetland map is currently at our Central Office in Albany. Acreages for these wetlands have not been calculated yet.

|        | Approximate % Covertypes           |                      |                   |                 |                |                      |  |
|--------|------------------------------------|----------------------|-------------------|-----------------|----------------|----------------------|--|
| FWW ID | Tentative<br><u>Classification</u> | Wet<br><u>Meadow</u> | Emergent<br>Marsh | Decid.<br>Swamp | Shrub<br>Swamp | Open<br><u>Water</u> |  |
| B-5    | I                                  |                      | 10%               | 70%             | 5%             | 15%                  |  |
| B-7    | I                                  |                      | 5%                | 75%             | 5%             | 15%                  |  |
| B-12   | I                                  |                      | 10%               | 40%             | 25%            | 25%                  |  |

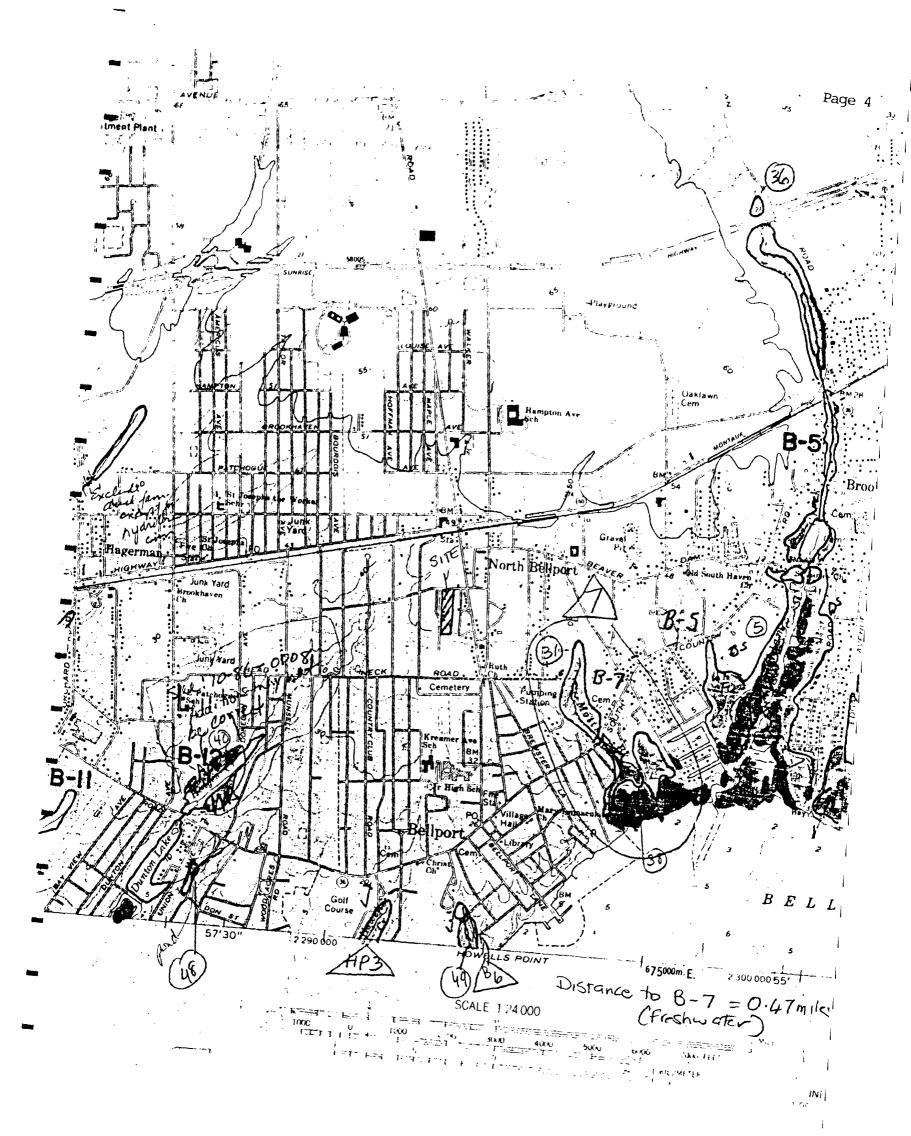
If you have any questions, I can be reached at (516) 751-7900 ext. 374.

Sincerely,

Martin E. Shea

Fish and Wildlife Technician

MES:ki Enclosure



|  | Reference 1 | 6 |
|--|-------------|---|
|  |             |   |
|  |             |   |
|  |             |   |
|  |             |   |
|  |             |   |
|  |             |   |

## YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203

October 19, 1988

Mr Michael S. Scheibel Senior Wildlife Biologist New York State Department of Environmental Conservation Building 40 - SUNY Campus Stony Brook, New York 11794

Dear Mr. Scheibel,

Thank you very much for the information on endangered, threatened, or species of concern for Smithtown Landfill and Suffolk County Airport Fire Training Area sites. I would very much appreciate if you could send the same information for New York Pyrotechnics Products Inc. (Grucci Site) located in Association Road, Bellport, Long Island (see attached Quadrangle map for site location).

Thanking you.

Sincerely yours

Mrs Ari Selvakumar Staff Engineer YEC, Inc.

## New York State Department of Environmental Conservation Building 40—SUNY, Stony Brook, New York 11794 (516) 751-7900 (ext. 248)



Thomas C. Jorling Commissioner

October 25, 1988

Mrs. Ari Selvakumar YEC, Inc. 10 Pine Crest Road Valley Cottage, NY 10989

Dear Mrs. Selvakumar:

We have reviewed the Significant Habitat Program and the Natural Heritage Program files with respect to your request of 10/19/88 regarding the N.Y. Pyrotechnics Products, Inc. site.

We did not identify any potential impacts on endangered, threatened, or special concern wildlife species, rare plant, animal or natural community occurrences, or other significant habitats.

The absence of data does not necessarily mean that rare or endangered elements, natural communities or other significant habitats do not exist on or adjacent to the proposed site, but rather that our files currently do not contain any information which indicates the presence of these. Our files are continually growing as new habitats and occurrences of rare species and communities are discovered. In most cases, site-specific or comprehensive surveys for plant and animal occurrences have not been conducted. For these reasons, we cannot provide a definitive statement on the presence or absence of species, habitats or communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

If this proposed project is still active one year from now we recommend that you contact us again so that we can update this response.

If we can be of further assistance please do not hesitate to contact me at the above address and telephone number.

Sincerelv.

Michael S. Scheibel

Senior Wildlife Biologist

MSS/sjmr

| •            |              |
|--------------|--------------|
| -            |              |
| -            |              |
| _            |              |
| -            | Reference 17 |
| _            |              |
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| <b>-</b>     |              |
| <b>*</b>     |              |
| <b>-</b>     |              |

## YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203

September 26, 1988

Mr Roy Fedelem Long Island Regional Planning Board H.Lee Dennison Office Building Veterans Memorial Highway Hauppauge, NY 11787

Dear Mr Fedelem:

Thank you very much for the population information for Smithtown Landfill, Sag Harbor Landfill and Suffolk County Airport Fire Training Area which I received today. I would very much appreciate if you could give me the same information for New York Pyrotechnic Products Inc. located in association Road, Bellport, New York (see attached map for site location) leisurely.

Thank you very much.

Sincerely yours

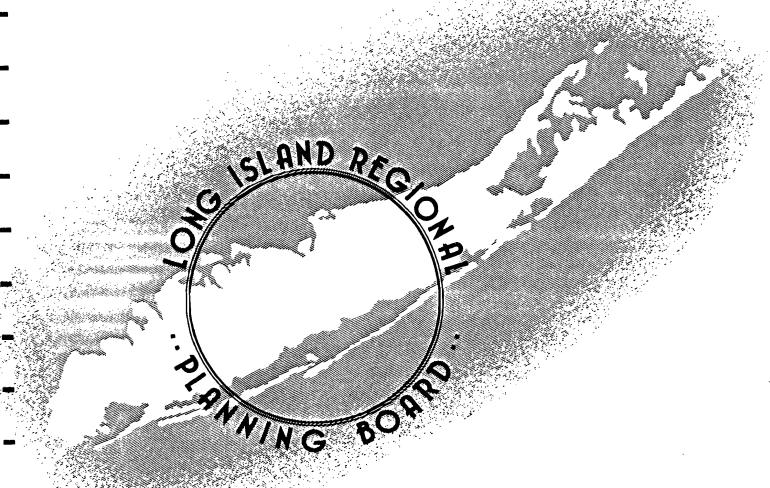
Mchakuman

Ari Selvakumar

Staff Engineer

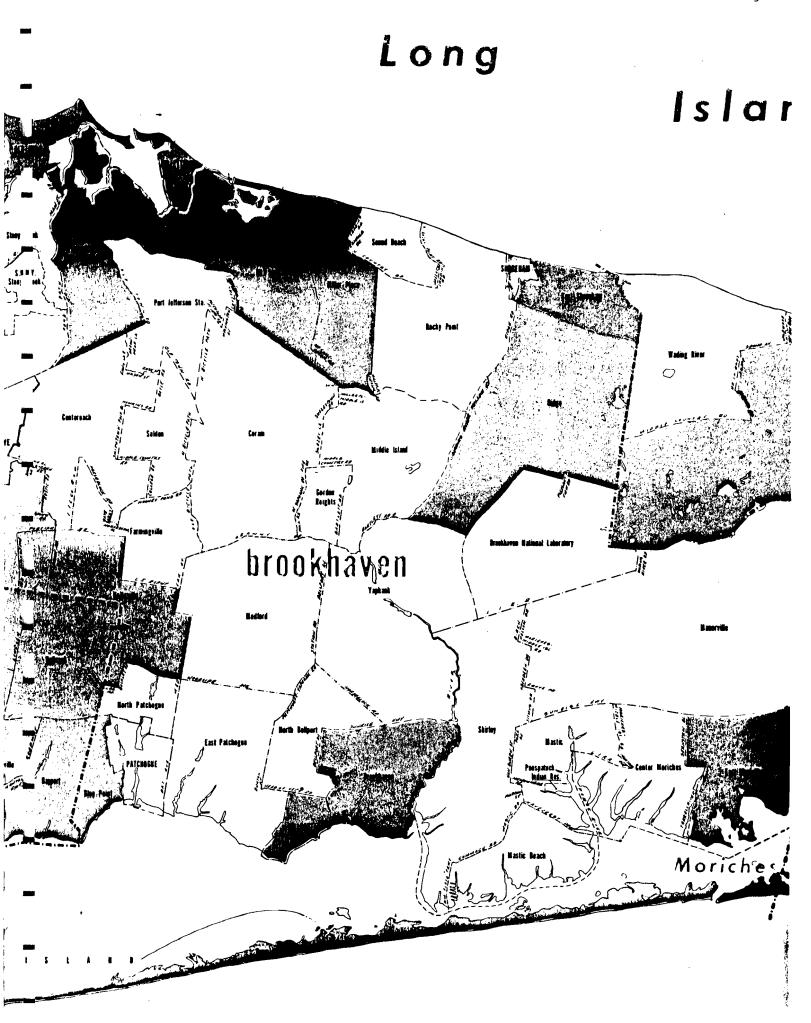
YEC, Inc.

# POPULATION - 1980

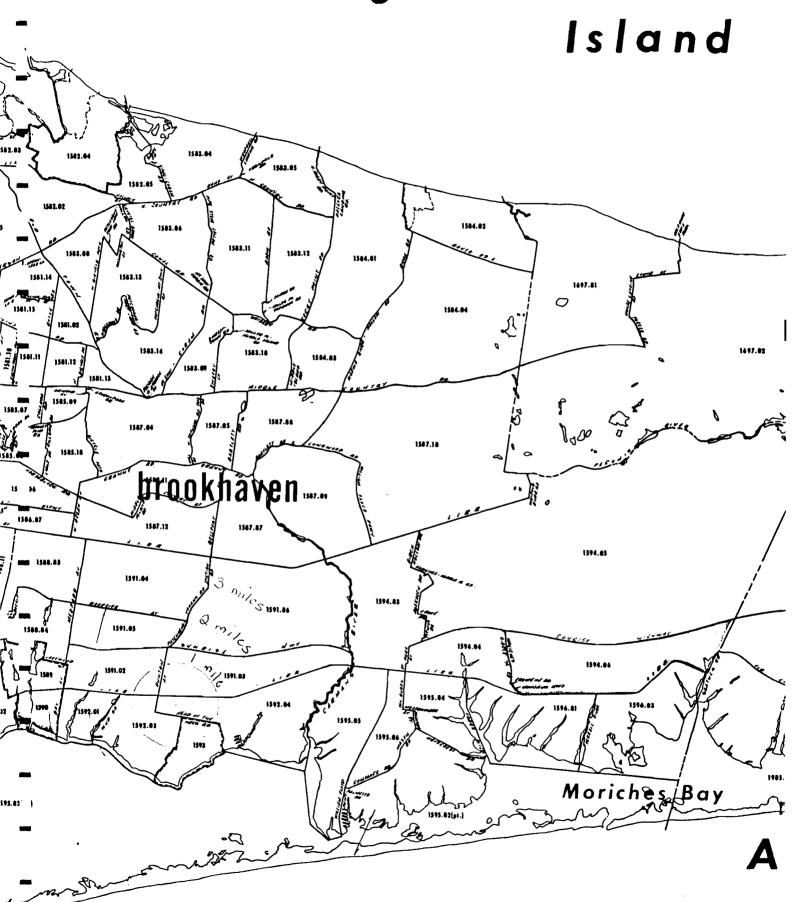


HOUSING CHARACTERISTICS

DECEMBER 1982



# Long



# APPENDIX TABLE 9B (Cont'd) Nassau and Suffolk Tracts Ranked by Percent of Total Housing Units Built 1939 and Earlier, 1980

| _     | SUFFOLK COUNTY |                  |                |                |  |  |
|-------|----------------|------------------|----------------|----------------|--|--|
|       |                | Units Built 1939 | Percent of     | Tot al         |  |  |
| Rank  | Tract          | and Earlier      | Total H/U      | Housing Units  |  |  |
| 11    | 1/71           | 5.0              |                |                |  |  |
| 11 12 | 1471           | 518              | 45.52          | 1,138          |  |  |
|       | 1106           | 1,257            | 45.38          | 2,770          |  |  |
| 13    | 1590           | 883              | 45.07          | 1,959          |  |  |
| 14    | 1472           | 907              | 43.99          | 2,062          |  |  |
| 15    | 1246.02        | 709              | 43.55          | 1,628          |  |  |
| 16    | 1698           | 876              | 43.52          | 2 012          |  |  |
| 17    | 172.02         | 703              | 42.12          | 2,013          |  |  |
| 18    | 1594.06        | 265              | 40.52          | 1,669          |  |  |
| 19    | 2009           | 1,333            |                | 654            |  |  |
| 20    | 1592.01        | 366              | 40.35          | 3,304          |  |  |
|       | 1372101        | 300              | 38.69          | 946            |  |  |
| 21    | 1907.04        | 558              | 37.88          | 1,473          |  |  |
| 22    | 1103           | 730              | 37.78          | 1,932          |  |  |
| 23    | 1241.02        | 462              | 37.26          | 1,240          |  |  |
| 24    | 1589           | 1,015            | 37.07          |                |  |  |
| 25    | 1700.02        | 631              | 36.62          | 2,738          |  |  |
|       |                |                  | 30.02          | 1,723          |  |  |
| 26    | 1803           | 561              | 36.48          | 1,538          |  |  |
| 27    | 1104.02        | 433              | 36.23          |                |  |  |
| 28    | 1593           | 378              | 35.83          | 1,195          |  |  |
| 29    | 1582.04        | 882              |                | 1,055          |  |  |
| 30    | 1473           | 777              | 33.75<br>33.69 | 2,613          |  |  |
| 21    | 1500 00        |                  | 33.07          | 2,306          |  |  |
| 31    | 1588.02        | 471              | 33.67          | 1,399          |  |  |
| 32    | 1474.02        | 434              | 33.57          | -              |  |  |
| 33    | 1236           | 506              | 33.40          | 1,293          |  |  |
| 34    | 1596.02        | 348              | 32.80          | 1,515          |  |  |
| 35    | 1112.01        | 357              | 32.37          | 1,061<br>1,103 |  |  |
| 36    | 1479.02        |                  |                | 1,103          |  |  |
| 37    | 1245           | 429              | 31.52          | 1 26 1         |  |  |
| 38    | 1105.02        | 541              | 30.93          | 1,361          |  |  |
| 39    | 1905.02        | 289              | 30.71          | 1,749          |  |  |
| 40    | 1102           | 331              | 30.68          | 941            |  |  |
|       | 1102           | 630              | 30.11          | 1,079          |  |  |
| 41    | 1592.04        | 339              |                | 2,092          |  |  |
| 42    | 1580.02        | 617              | 30.05          | 1,128          |  |  |
| 43    | 1350.04        |                  | 29.35          |                |  |  |
| 44    | 1702.01        | 225              | 29.30          | 2,102          |  |  |
| 45    | 1905.01        | 655              | 29.27          | 768            |  |  |
|       |                | 540              | 28.53          | 2,238          |  |  |
| 46    | 1700.01        | 550              |                | 1,893          |  |  |
| 47    | 1242           | 550              | 28.29          | 1 044          |  |  |
| 48    | 1477.02        | 541              | 28.12          | 1,944          |  |  |
| 49    | 1907.03        | 396              | 27.14          | 1,924          |  |  |
| 50    | 1596.01        | 691              | 26.94          | 1,459          |  |  |
|       | >0.01          | 428              | 26.15          | 2,565          |  |  |
|       |                |                  |                | 1,637          |  |  |

APPENDIX TABLE 9B (Cont'd)
Nassau and Suffolk Tracts Ranked by Percent of Total Housing Units
Built 1939 and Earlier, 1980

|            | SUFFOLK COUNTY |                  |            |               |  |  |
|------------|----------------|------------------|------------|---------------|--|--|
|            |                | Units Built 1939 | Percent of | Tot al        |  |  |
| Rank       | Tract          | and Earlier      | Total H/U  | Housing Units |  |  |
| 51         | 1475.01        | 572              | 26.02      | 2,198         |  |  |
| 52         | 1587.07        | 109              | 26.01      | 419           |  |  |
| 53         | 1101.02        | 439              | 25.35      | 1,732         |  |  |
| 54         | 1241.01        | 342              | 25.22      | 1,356         |  |  |
| 55         | 1580.01        | 331              | 25.15      | 1,316         |  |  |
| 56         | 1462.03        | 285              | 24.48      | 1,164         |  |  |
| 57         | 1584.01        | 814              | 24.36      | 3,341         |  |  |
| 58         | 1583.05        | 719              | 24.27      | 2,963         |  |  |
| 59         | 1112.02        | 380              | 24.25      | 1,567         |  |  |
| 60         | 1109.02        | 319              | 23.98      | 1,330         |  |  |
| 61         | 2010.02        | 658              | 23.81      | 2,763         |  |  |
| 62         | 1111           | 530              | 23.62      | 2,244         |  |  |
| 63         | 1474.01        | 444              | 22.40      | 1,982         |  |  |
| 64         | 1465           | 361              | 22.30      | 1,619         |  |  |
| 65         | 1101.01        | 228              | 21.99      | 1,037         |  |  |
| 66         | 1110.02        | 279              | 21.76      | 1,282         |  |  |
| 67         | 1582.05        | 80               | 21.62      | 370           |  |  |
| 68         | 1237.01        | 306              | 21.61      | 1,416         |  |  |
| 69         | 1350.03        | 263              | 21.28      | 1,236         |  |  |
| 70         | 1478.03        | 139              | 20.97      | 663           |  |  |
| 71         | 1595.02        | 611              | 20.57      | 2,971         |  |  |
| 72         | 1907.01        | 507              | 20.42      | 2,483         |  |  |
| 73         | 1699           | 487              | 20.36      | 2,392         |  |  |
| 74         | 1462.06        | 122              | 19.97      | 611           |  |  |
| <b>7</b> 5 | 1116.02        | 213              | 19.51      | 1,092         |  |  |
| 76         | 1582.03        | 100              | 19.34      | 517           |  |  |
| 77         | 1591.02        | 403              | 18.94      | 2,128         |  |  |
| 78         | 1347.02        | 309              | 18.92      | 1,633         |  |  |
| 79         | 1904.03        | 136              | 18.53      | 734           |  |  |
| 80         | 1108.01        | 134              | 18.51      | 724           |  |  |
| 81         | 1246.01        | 184              | 18.49      | 995           |  |  |
| 82         | 1223           | 195              | 18.21      | 1,071         |  |  |
| 83         | 1105.01        | 194              | 18.18      | 1,067         |  |  |
| 84         | 1239           | 281              | 17.56      | 1,600         |  |  |
| 85         | 1476.01        | 157              | 17.50      | 897           |  |  |
| 86         | -1592.03       | 276              | 17.05      | 1,619         |  |  |
| 87         | 1244.02        | 197              | 17.01      | 1,158         |  |  |
| 88         | 1469.02        | 214              | 16.80      | 1,274         |  |  |
| 89         | 1585.09        | 234              | 16.27      | 1,438         |  |  |
| 90         | 1477.01        | 183              | 16.17      | 1,132         |  |  |

# APPENDIX TABLE 9B (Cont'd) Nassau and Suffolk Tracts Ranked by Percent of Total Housing Units Built 1939 and Earlier, 1980

|   |      |         | SUFFOLK CO       |            |               |
|---|------|---------|------------------|------------|---------------|
|   |      |         | Units Built 1939 | Percent of | Tot al        |
| - | Rank | Tract   | and Earlier      | Total H/U  | Housing Units |
|   | 91   | 1906.01 | 371              | 16.15      | 2,297         |
| _ | 92   | 1104.01 | 151              | 15.91      | 949           |
| _ | 93   | 1117.01 | 270              | 15.86      | 1,702         |
|   | 94   | 1349.04 | 301              | 15.82      | 1,903         |
|   | 95   | 1347.01 | 304              | 15.38      | 1,977         |
|   | 0.6  | 1100 02 | 270              | 15.16      | 1,781         |
|   | 96   | 1108.02 | 60               | 15.10      | 399           |
|   | 97   | 1466.05 |                  |            |               |
| - | 98   | 1458.05 | 277              | 14.69      | 1,886         |
|   | 99   | 1238.01 | 229              | 14.63      | 1,565         |
|   | 100  | 1585.06 | 116              | 14.59      | 795           |
|   | 101  | 1243    | 291              | 14.50      | 2,007         |
|   | 102  | 1466.06 | 309              | 14.14      | 2,186         |
|   | 103  | 1906.02 | 313              | 13.54      | 2,312         |
| - | 104  | 1594.04 | 173              | 13.27      | 1,304         |
|   | 104  | 1587.09 | 76               | 12.99      | 585           |
|   | 105  | 1307.09 | 70               | 12.77      | ,,,,          |
| - | 106  | 1244.01 | 161              | 12.69      | 1,269         |
|   | 107  | 1238.02 | 162              | 12.69      | 1,277         |
|   | 108  | 1354.01 | 172              | 12.53      | 1,373         |
| _ | 109  | 1588.04 | 299              | 12,28      | 2,434         |
| _ | 110  | 1697.02 | 278              | 12.09      | 2,299         |
|   | 111  | 1904.01 | 244              | 11.90      | 2,050         |
| _ | 112  | 1237.02 | 266              | 11.86      | 2,243         |
|   |      |         | 52               | 11.85      | 439           |
|   | 113  | 1115.04 |                  |            |               |
| _ | 114  | 1586.01 | 287              | 11.84      | 2,425         |
|   | 115  | 1460.01 | 99               | 11.76      | 842           |
|   | 116  | 1470.02 | 206              | 11.48      | 1,794         |
| _ | 117  | 1457.02 | 138              | 11.36      | 1,215         |
|   | 118  | 1469.01 | 196              | 11.14      | 1,760         |
|   | 119  | 1225.01 | 108              | 11.04      | 978           |
| - | 120  | 1122.06 | 112              | 11.03      | 1,015         |
|   | 121  | 1583.04 | 191              | 11.01      | 1,734         |
|   | 122  | 1350.02 | 177              | 11.01      | 1,608         |
| _ | 123  | 1240.02 | 115              | 10.92      | 1,053         |
|   | 124  | 1354.03 | 138              | 10.69      | 1,291         |
|   | 125  | 1466.09 | 242              | 10.49      | 2,307         |
| - |      |         |                  |            |               |
|   | 126  | 1581.03 | 109              | 10.47      | 1,041         |
|   | 127  | 1460.03 | 165              | 10.43      | 1,582         |
|   | 128  | 1116.01 | 143              | 10.32      | 1,386         |
|   | 129  | 1113    | 141              | 10.22      | 1,379         |
|   | 130' | 1697.01 | 155              | 10.21      | 1,518         |

APPENDIX TABLE 9B (Cont'd)
Nassau and Suffolk Tracts Ranked by Percent of Total Housing Units
Built 1939 and Earlier, 1980

| <del></del> |          | SUFFOLK CO       |                         | War - 1      |
|-------------|----------|------------------|-------------------------|--------------|
| Dank        | Treat    | Units Built 1939 | Percent of<br>Total H/U | Total        |
| Rank        | Tract    | and Earlier      | Total H/U               | Housing Unit |
| 131         | 1456.04  | 95               | 10.05                   | 945          |
| 132         | 1350.05  | 97               | 9.97                    | 973          |
| 133         | 1586.06  | 132              | 9.90                    | 1,333        |
| 134         | 1904.02  | 57               | 9.68                    | 589          |
| 135         | -1591.03 | 134              | 9.64                    | 1,390        |
| 136         | 1115.06  | 78               | 9.59                    | 813          |
| 137         | 1224.06  | 96               | 9.55                    | 1,005        |
| 138         | 1478.04  | 146              | 9.39                    | 1,555        |
| 139         | 1230.02  | 130              | 9.39                    | 1,385        |
| 140         | 1114.01  | 45               | 9.34                    | 482          |
| 141         | 1120.01  | 154              | 9.33                    | 1,650        |
| 142         | 1585.11  | 147              | 9.33                    | 1,576        |
| 143         | 1233.01  | 192              | 9.24                    | 2,078        |
| 144         | 1459.03  | 148              | 8.98                    | 1,649        |
| 145         | 1588.03  | 51               | 8.95                    | 570          |
| 146         | 1585.02  | 103              | 8.93                    | 1,153        |
| 147         | 1229.01  | 160              | 8.88                    | 1,801        |
| 148         | 1353.03  | 120              | 8.78                    | 1,367        |
| 149         | 1462.05  | 56               | 8.72                    | 642          |
| 150         | 1470.01  | 98               | 8.66                    | 1,131        |
| 151         | 1114.02  | 141              | 8.55                    | 1,649        |
| 152         | 1227.05  | 84               | 8.40                    | 1,000        |
| 153         | 1120.02  | 132              | 8.16                    | 1,617        |
| 154         | 1583.10  | 54               | 8.14                    | 663          |
| 155         | 1354.02  | 134              | 7.91                    | 1,695        |
| 156         | 1231.01  | 89               | 7.88                    | 1,129        |
| 157         | 1457.03  | 103              | 7.84                    | 1,314        |
| 158         | 1475.03  | 94               | 7.80                    | 1,205        |
| 159         | 1119     | 145              | 7.63                    | 1,901        |
| 160         | 2010.01  | 135              | 7.61                    | 1,773        |
| 161         | 1584.02  | 92               | 7.55                    | 1,218        |
| 162<br>163  | 158.08   | 17               | 7.49                    | 227          |
|             | 1582.02  | 171              | 7.46                    | 2,292        |
| 164         | 1234.01  | 86               | 7.43                    | 1,158        |
| 165         | 1585.10  | 121              | 7.36                    | 1,643        |
| 166         | 1583.12  | 7                | 7.29                    | 96           |
| 167         | 1117.03  | 67               | 7.20                    | 931          |
| . 68        | 1585.12  | 61               | 7.01                    | 870          |
| :69         | 1351.04  | 85               | 6.97                    | 1,219        |
| 10          | 1240.01  | 102              | 6.96                    | 1,465        |

APPENDIX TABLE 9B (Cont'd)

Nassau and Suffolk Tracts Ranked by Percent of Total Housing Units
Built 1939 and Earlier, 1980

SUFFOLK COUNTY Total Units Built 1939 Percent of Total H/U Housing Units and Earlier Rank Tract 910 63 6.92 1587.10 171 6.81 1,321 1586.04 90 172 6.79 2,090 142 173 1457.04 860 57 6.63 174 1462.02 175 94 6.40 1,469 1231.02 789 6.34 176 1587.08 50 177 1230.01 109 6.26 1,742 939 178 1227.07 58 6.18 179 1233.02 29 6.02 482 1,122 180 67 5.97 1581.02 1,553 181 1479.01 92 5.92 1,720 100 5.81 182 1468 2,469 183 1594.05 143 5.79 916 184 1464.04 53 5.79 674 185 -1591.0639 5.79 186 -1591.04 151 5.70 2,649 936 5.66 187 1585.07 53 937 188 53 5.66 1121.04 1115.03 189 80 5.39 1,485 190 1115.05 93 5.31 1,752 191 1232.02 73 5.23 1,396 192 1349.05 59 5.22 1,130 89 193 1583.08 5.18 1,718 194 1227.06 78 5.15 1,516 195 44 5.03 874 1224.05 196 1456.05 33 5.00 660 197 1476.02 4.91 82 1,671 198 1587.12 89 4.87 1,827 199 1227.04 28 4.84 579 200 1458.06 110 4.82 2,284 201 1583.09 51 4.78 1,066 202 1122.07 59 4.61 1,280 203 1226.01 87 4.55 1,912 204 40 1586,07 4.48 892 205 1583.06 53 4.41 1,202 206 1581.07 40 4.27 937 207 1234.02 98 4.20 2,336 208 1349.03 15 4.01 374

3.99

3.96

1,229

1,137

49

45

209

210

1349.02

1225.02

# APPENDIX TABLE 9B (Cont'd) Nassau and Suffolk Tracts Ranked by Percent of Total Housing Units Built 1939 and Earlier, 1980

|      |          | SUFFOLK CO       |            |               |
|------|----------|------------------|------------|---------------|
|      |          | Units Built 1939 | Percent of | Total         |
| Rank | Tract    | and Earlier      | Total H/U  | Housing Units |
| 211  | 1587.05  | 20               | 3.92       | 510           |
| 212  | 1581.12  | 42               | 3.89       | 1,080         |
| 213  | 1461.03  | 54               | 3.88       | 1,392         |
| 214  | 1585.05  | 52               | 3.85       | 1,351         |
| 215  | 1353.04  | 31               | 3.78       | 821           |
| 216  | 1595.04  | 74               | 3.75       | 1,975         |
| 217  | 1458.04  | 27               | 3.60       | 750           |
| 218  | 1461.02  | 19               | 3.49       | 545           |
| 219  | 1466.04  | 52               | 3.45       | 1,509         |
| 220  | 1229.02  | 46               | 3.41       | 1,347         |
| 221  | 1118.04  | 23               | 3.36       | 685           |
| 222  | 1587.04  | 60               | 3.31       | 1,812         |
| 223  | 1459.02  | 53               | 3.28       | 1,618         |
| 224  | 1351.03  | 36               | 3.19       | 1,128         |
| 225  | 1583.11  | 34               | 3.09       | 1,099         |
| 226  | 1232.01  | . 12             | 3.08       | 389           |
| 227  | 1122.09  | 70               | 3.08       | 2,270         |
| 228  | 1475.02  | 35               | 2.77       | 1,264         |
| 229  | 1586.05  | 33               | 2.76       | 1,197         |
| 230  | 1224.04  | 29               | 2.75       | 1,055         |
| 231  | 1460.02  | 28               | 2.58       | 1,085         |
| 232  | -1591.05 | 45               | 2.48       | 1,811         |
| 233  | 1117.04  | 25               | 2.40       | 1,042         |
| 234  | 1349.06  | 39               | 2.20       | 1,770         |
| 235  | 1585.08  | 30               | 2.08       | 1,443         |
| 236  | 1467.06  | 17               | 2.00       | 850           |
| 237  | 1467.03  | 23               | 1.97       | 1,166         |
| 238  | 1226.02  | 28               | 1.93       | 1,454         |
| 239  | 1458.03  | 26               | 1.92       | 1,353         |
| 240  | 1457.01  | 33               | 1.92       | 1,722         |
| 241  | 1467.05  | 20               | 1.79       | 1,116         |
| 242  | 1464.03  | 20               | 1.79       | 1,119         |
| 243  | 1580.05  | 31               | 1.78       | 1,743         |
| 244  | 1462.04  | 20               | 1.69       | 1,180         |
| 245  | 1122.10  | 29               | 1.64       | 1,773         |
| 246  | 1118.02  | 15               | 1.62       | 924           |
| 247  | 1121.03  | 19               | 1.60       | 1,184         |
| 248  | 1226.03  | 30               | 1.57       | 1,914         |
| 249  | 1121.02  | 18               | 1.55       | 1,161         |
| 250  | 1118.03  | 13               | 1.54       | 845           |

APPENDIX TABLE 9B (Cont'd)
Nassau and Suffolk Tracts Ranked by Percent of Total Housing Units
Built 1939 and Earlier, 1980

SUFFOLK COUNTY Tot al Percent of Units Built 1939 Housing Units and Earlier Total H/U Rank Tract 617 9 1.46 1352.06 251 760 1.45 1466.07 11 252 1,383 1.37 253 1587.11 19 1.33 17 1,279 254 1456.02 697 9 1.29 255 1352.01 1,334 1.27 256 1122.04 17 2,281 29 1.27 257 1594.03 22 1.26 1,748 1352.05 258 1,650 1.21 20 259 1595.05 1.16 951 11 260 1462.01 1.15 1,387 1581.11 16 261 1456.03 12 1.06 1,129 262 11 1.03 1,071 1464.02 263 .97 1,242 1352.02 12 264 1,517 14 . 92 265 1228.01 .85 1,999 17 266 1580.06 .84 712 267 1466.11 6 739 26" 6 .81 1461.04 1467.04 5 .81 619 6 .77 778 10 1581.14 .77 1,434 271 1595.06 11 1118.01 11 .67 1,636 272 .66 7 1,064 273 1353.01 274 1461.05 9 .66 1,370 275 7 .57 1,224 1352.04 276 1224.03 4 .56 712 277 1122.11 7 .54 1,294 278 1583.14 14 .53 2,626 279 1581.04 8 .50 1,590 280 1351.02 6 .49 1,235 281 1456.01 1,255 6 .48 1584.04 282 14 .46 3,036 5 283 1228.02 .40 1,255 284 3 1459.01 .35 857 285 .00 1351.01 1,244 286 1122.08 .00 23 287 .00 1584.03 616 288 1583.13 .00 2,300 289 · 1581.13 .00 519

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1581.15

# APPENDIX TABLE 9B (Cont'd) Nassau and Suffolk Tracts Ranked by Percent of Total Housing Units Built 1939 and Earlier, 1980

|      |         | Units Built 1939 | Percent of | Tot al       |  |  |  |
|------|---------|------------------|------------|--------------|--|--|--|
| Rank | Tract   | and Earlier      | Total H/U  | Housing Unit |  |  |  |
| 291  | 1581.10 |                  | .00        | 525          |  |  |  |
| 292  | 1581.08 |                  | .00        | 616          |  |  |  |
| 293  | 1580.09 |                  | .00        | 727          |  |  |  |
| 294  | 1580.07 |                  | .00        | 46           |  |  |  |
| 295  | 1466.10 |                  | .00        | 2,764        |  |  |  |
| 296  | 1466.08 |                  | .00        | 534          |  |  |  |
| 297  | 1473.99 |                  | .00        |              |  |  |  |
| 297  | 1582.99 |                  | .00        |              |  |  |  |
| 297  | 2010.99 |                  | .00        |              |  |  |  |
| 297  | 1122.05 |                  | .00        |              |  |  |  |

| \$ 500<br>\$ 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 m 11           | 1084          | 3678                                                                                                            | 7.77              | \             |               | 6        | 4834                |                                       |           |      |          |         | 166        | }       | }       | 623       |            |       |         | 7011    |          |         |           |             |          |        | 4599       |           |           |          | .       |         |                    |        | 18 405 |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|-----------------------------------------------------------------------------------------------------------------|-------------------|---------------|---------------|----------|---------------------|---------------------------------------|-----------|------|----------|---------|------------|---------|---------|-----------|------------|-------|---------|---------|----------|---------|-----------|-------------|----------|--------|------------|-----------|-----------|----------|---------|---------|--------------------|--------|--------|------|
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| year Fr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 130              | Bellow        | A Boleo.                                                                                                        | 100 0 6 4, 0 101, |               |               |          | N. Net. + Dr.       |                                       |           |      |          |         | N . Bellar |         |         | E. Ath.   |            |       |         | F POAL  |          |         |           |             |          |        | - L        |           |           |          |         |         |                    |        |        |      |
| 1 10 = 10 d = 10 | 1.3<br>33.61     | 608°          | 2462                                                                                                            | 6398              | ls I          |               | - 15.7   | 7 ( 5               | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 77.       |      | -37      |         | 717        |         |         | 533       | اب<br>( )  | 2.5   | 205     | 246     | 74       | 9.i     |           | L           | 1_       | _      | 3,935      |           | ,         | S 5 € 5  | •       |         |                    | +0 ta  | 71 auz | 1 01 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ा पत             | Te491         |                                                                                                                 | Total             | 16-516-       | 1694-         | -9232924 | 7                   | 10/0                                  |           | 2011 | 101-     |         | 6 6 6      | 70.002  | 1 2 2 1 |           | 75 g2      | 503   | 470-076 |         | 101, 162 | L01-13: | 115-11    | 100 5/      | 915-516  |        |            | To !      | Win Jih - | 3.4 314- | 128-    | 7       |                    | radivs |        |      |
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| 16.17 (16.07)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 <u>.</u> >     | 98            |                                                                                                                 |                   |               |               |          |                     |                                       |           |      | 218      |         |            |         |         | 2343      |            |       |         |         |          |         | 9822      |             |          |        |            |           |           |          |         |         |                    |        | 102    | 1    |
| T. C. J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 (ac)           | 2.847         |                                                                                                                 |                   |               |               |          |                     |                                       |           |      |          |         |            |         |         |           |            |       | <br> -  |         |          |         |           |             | <u> </u> |        |            |           |           |          |         |         | -                  |        |        |      |
| Ros Worth<br>North<br>Round                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (: 3)<br>Pop.    | $\rightarrow$ |                                                                                                                 |                   |               |               |          |                     |                                       |           |      |          |         |            |         |         |           |            |       |         |         |          |         |           |             |          |        |            |           |           |          |         |         |                    |        |        |      |
| ONE MIR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ्रावट            | Bellow        |                                                                                                                 |                   |               |               |          |                     |                                       |           |      | E. Patch |         |            |         |         | 1. 130 le |            |       |         |         |          |         | N. Bellan |             |          |        |            |           |           |          |         |         |                    |        |        |      |
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| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ن<br>د د د د<br>د د د د | 3 mil        |           | 13525     | 2897     | 3826           | 5257    | 4710     |      |     |       |      |         |        | 5223     |          |      |          |      |         |        |     |            |          |         | 0000  | 4121    |        |       |        |     |      |      | *        |
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| A CONTRACTOR OF THE CONTRACTOR |                         | 03 b 1       |           |           |          |                | 5003    | 4030     | 2448 | 701 | 1101- | -255 | 700-    |        | 6944     |          | 921- | - 5.7    | らてし  | -25     | 56.6-  | -35 | -2 h .     | 1        | -43     | 7011  | שרה מ   | -173   | -282  | 21.    | T(- | -736 | -32- | -        |
| 6(0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         | rac t        |           | 1041      | -        |                |         |          | T    |     | 4     | 919  |         |        | 1        |          | 2    | - 14 308 | -321 | - yor   | 30% -  | 403 | - アンテータンガー | -501-505 | 513+514 | -     | 570     | +-     | 3-215 | 1~1    | ٦)٨ | 17   | 123  | יית ,    |
| _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         | ereus Trac   |           | 792.63    | 1593     | 1592.04        | 1591.03 | 15.1.05  |      |     | 201-  | 1    | 1       |        | 1591.02  |          | 1    | ?, .     | ,    | 7 4/1 - | -975 - | , š | 77-1       | - 50     | -51     | •     | 7       | 1      | スー    | -1/1/6 | ν1, | -1   | 7,   |          |

Reference 18

## YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203

November 18, 1988

Mr Joe Salerwein Fire Captain Town of Brookhaven 3233 RT 112 Medford, NY 11763

Dear Mr. Salerwein,

Herewith, I am attaching a copy of New York State Department of Environmental Conservation's (NYSDEC) authorization letter for your review. The NYSDEC has required the subcontractor (YEC, Inc.) for the Phase I Investigations to identify the site history, ownership, size, maps and any waste characteristics/disposal of the Grucci Site located in Association Road, Bellport, New York.

Also, please send me a letter stating whether this site is declared as threat of fire and/or explosion by you.

Your assistance in providing us with the above information will be greatly appreciated.

Very truly yours

Ms. Ari Selvakumar Staff Engineer YEC, Inc.

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DEPARTMENT OF PUBLIC SAFETY THOMAS G. LIGUORI, Commissioner

DIVISION OF FIRE PREVENTION JOSEPH F. SAUERWEIN, Chief Fire Marshal

December 12, 1988

Ms. Ari Selvakumar YEC, Inc. Forest View Professional Building 10 Pine Crest Blvd. Valley Cottage, NY 11989

Re: Grucci, Bellport, NY

Dear Ms. Selvakumar:

I am in receipt of your letter of 11/18/88 regarding the Grucci property with a list of 24 questions. Unfortunately, I am unable to answer many of these questions. If you will refer to these questions, I will answer as follows:

- 1. Site is fenced.
- 2. Total area of site is approximately 16.4 acres.
- 3. There are several buildings on site, including some trailer type structures. The actual number will be determined by your field inspection.
- 4. Unknown to this writer.
- Unknown to this writer.
- 6. Unknown to this writer, to be determined by your site inspection. The Town of Brookhaven Planning Division, 516-451-5400 may have aerial maps available to assist you in this. Please contact them directly.
- 7. See #6 above.
- 8. To be determined by your site inspection.
- 9. Unknown to this writer.
- 10. Unknown to this writer.
- 11. Unknown to this writer.
- 12. Unknown to this writer.
- 13. Subject premises is divided into many parcels. Owner appears to be Concetta Grucci, 53 Station Road, Bellport.
- 14. No previous owner on record.
- 15. Current occupant is Fireworks by Grucci.
- 16. Previous occupant was N.Y. Pyrotechnic Products.
- 17. Unknown to this writer.
- 18. Unknown to this writer.
- 19. Unknown to this writer.
- 20. Unknown to this writer.
- 21. Unknown to this writer.

December 12, 1988

- 22. To be determined by your site inspection.
- 23. To be determined by your site inspection.
- 24. To be determined by your site inspection.

At this time, this premises is a matter of concern due to various containers of chemicals that were packed by direction of New York State Department of Environmental Conservation but were never removed. I do not consider this to be a severe fire/explosion hazard.

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

Very truly yours,

Joseph F. Sauerwein Chief Fire Marshal

JFS/1w

cc: Helen Lefkowitz, Assistant Town Attorney

Reference 19



DEPARTMENT OF PUBLIC SAFETY THOMAS G. LIGUORI, Commissioner

DIVISION OF FIRE PREVENTION

JOSEPH F. SAUERWEIN, Chief Fire Inspector

February 20, 1986

TO: Thomas G. Liguori, Commissioner

Dept. of Public Safety

FROM: Joseph F. Sauerwein

Chief Fire Inspector

RE: Grucci's Fireworks. Bellport

I am in receipt of the memo of 2/7/86 from Supervisor Henrietta Acampora. I would present the following for your information:

- 1. We do not have anytesting equipment in the Division of Fire Prevention suitable for the materials enumerated in Mr. Capizzi's letter.
- 2. If desired, we could contact a testing lab to have soil and/or water samples analyzed but I believe that would fall more properly under the purview of the Town of Brookhaven Environmental Division. I would suggest that prior to same, an inquiry be made to the State D.E.C. and the Suffolk County Dept. of Health Services as to what tests have already been completed, their results and any future proposed testing.
- From a strictly fire safety point of view, there are no materials any longer on the site that present a clear and present fire or explosion hazard.
- 4. Unlike many of the hazard materials incidents we respond to, this is not a clearly defined situation with obvious materials present. While we will assist the Environmental Protection Division or any other agency in the taking of samples, I believe that this is primarily a task for sophisticated laboratory analyses. I might also point out that we have no enforcement powers in this area to force the property owners to effectuate clean up if such is indicated.

JFS/1w

cc: Allen I. Sak, Town Attorney

T. Cramer, Director of Environmental Protection

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## YEC, INC.

Forest View Professional Building 10 Pine Crest Road Valley Cottage, NY 10989 (914) 268-3203 Pat-Me chul

August 7, 1989

Colbey Tucker
Division of Water
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-0001

Dear Mr. Tucker,

The New York State Department of Environmental Conservation (NYSDEC) requires the subcontractor (YEC, Inc.) for the Phase I investigations to document all reference material used in the reports. Please find a summary of our telephone conversation on the attached Interview Acknowledgement Form. Please read this summary and sign at the bottom to verify its accuracy. Write in any revisions or additions, if necessary, and return to us as soon as possible.

It was a pleasure talking with you and we greatly appreciate your groups input. If you have any questions, please call this office at (914) 268-3203.

Sincerely yours,

Marie F. Mc Donnell

Geologist

Dea Mo. M. Smull.

Attached Neturn de ger yn

Moule f-11-89

## INTERVIEW ACKNOWLEDGEMENT FORM

SITE NAME: New York Pyrotechnics I.D. NUMBER: 152116

PERSON DATE: August 7, 1989

CONTACTED: Colbey Tucker

PHONE NUMBER: (518) 457-6674

AFFILIATION: Colbey Tucker

Division of Water

CONTACT
PERSON(S): Marie Mc Donnell

ADDRESS: NYSDEC, Albany. TYPE OF CONTACT: Telephone

## INTERVIEW SUMMARY

The classification of surface waters within a 3-mile radius of the Grucci site in Bellport, Long Island are as follows:

| Surface Water Body                                                                                                                                                                                              | Classificati        | .on    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|
| Swan Creek                                                                                                                                                                                                      |                     |        |
| <ul> <li>from Patchogue Bay to the impoundment north of the Long Island Railroad (LIRR)</li> <li>Swan Lake (See texture and See Creek and The Company of the Patch of the Source including tributary</li> </ul> | SC CT CTS           | :) (7) |
| Mud Creek                                                                                                                                                                                                       |                     |        |
| <ul><li>tidal portion</li><li>north of tidal portion to Robinsons Pond</li><li>Robinsons Pond</li><li>north of the pond including tributaries</li></ul>                                                         | SC<br>C<br>B<br>CTS |        |
| Abets Creek                                                                                                                                                                                                     | С                   |        |
| Hedges Creek                                                                                                                                                                                                    |                     |        |
| <ul><li>tidal portion up to the southern portion of<br/>Dunton Lake</li><li>northern portion of the lake to the source</li></ul>                                                                                | SB<br>C             | :      |
| Howells Creek                                                                                                                                                                                                   | SC                  |        |
| Motts Brook (Timb. 21 / 11/4 ( Boy) miles /                                                                                                                                                                     | Mignet Hourt        |        |
| <ul><li>tidal portion</li><li>freshwater portion to source including tributaries</li></ul>                                                                                                                      | SC<br>C             |        |

| Surface Water Body                                                                                                                                  | <u>Classification</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Beaver Dam Creek                                                                                                                                    |                       |
| <ul><li>tidal portion</li><li>lower tributaries</li><li>freshwater portion crossing Beaver Dam Road,</li><li>South Country Road to source</li></ul> | SC<br>SC<br>CTS       |
| Little Neck Run                                                                                                                                     | С                     |
| Yapahank Creek                                                                                                                                      | CTS                   |
| Carmens River                                                                                                                                       |                       |
| <ul><li>mouth to LIRR including tributaries</li><li>portion above LIRR</li></ul>                                                                    | SC<br>CTS             |
| Bellport Bay                                                                                                                                        | SA                    |

## Saline Surface Waters:

- SA = Suitable for shellfishing for market purposes and primary and secondary contact recreation.
- SC = Suitable for fishing, fish propagation and primary and secondary
  contact recreation.
- SB = Suitable for primary and secondary contact recreation and all other uses except for the taking of shellfish for market purposes.

### Fresh Surface Waters:

- C = Suitable for fishing and fish propagation and primary and secondary contact recreation.
- B = Primary contact recreation and other uses except as drinking water, culinary or food processing purposes.
- CTS = Suitable for fishing and fish propagation including trout.  $\sim 10^{-10} \text{ cm}^{-1} \text{ cm}^{-1}$

## ACKNOWLEDGEMENT:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to the YEC, Inc. interviewer (as revised below, if necessary).

Revisions (please write in any corrections needed to the above transcript)

Signature: // ////

Date: \ \_\_//\_\



SEPA

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

| 1. IDENTIFICATION |                  |  |  |  |  |
|-------------------|------------------|--|--|--|--|
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|                     | ATES, QUANTITIES, AT                             | 02 WASTE QUANT         | ITY AT SITE                                      | OJ WASTE CHARACT                            | TEPASTICS (Creck of their energy) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| XA SOLIO U 8 POWOEF | 1) E SLUHRY<br>R. FINES LI) F LIQUID<br>1) G GAS | ~1104                  | unknown                                          | X A TONC 1.8 CORRO 1.C RADIO 1.10 PERSI     | OSIVE () F INFECTIO               | US LI EXPLOSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | VE<br>∕E       |
| LI D OTHER          | (\$600.07)                                       |                        | unknown                                          |                                             |                                   | () M NOT APPLICABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |
| III. WASTET         | YPE                                              |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| CATEGORY            | SUBSTANCE                                        | NAME                   | 01 GROSS AMOUNT                                  | 02 UNIT OF MEASUR                           | E 03 COMMENTS                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| SLU                 | SLUDGE                                           |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| OLW                 | OILY WASTE                                       |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| SOL                 | SOLVENTS                                         |                        | 1                                                | † <del></del>                               | Residues ar                       | d ash of o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | cidizers       |
| PS0                 | PESTICIDES                                       |                        |                                                  | <u> </u>                                    | and powders                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| occ                 | OTHER ORGANIC C                                  | HEMICALS               | <u> </u>                                         | † <del></del> -                             | blast and s                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| юс                  | INORGANIC CHEMIC                                 | CALS                   | unknown                                          | { <del></del>                               | inorganic c                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| ACD                 | ACIDS                                            | <del></del>            |                                                  | <del> </del>                                |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| BAS                 | BASES                                            | <del></del>            | <del>                                     </del> | 1                                           | ·                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| MES                 | HEAVY METALS                                     |                        | <del>                                     </del> | <del> </del>                                | <del> </del>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| IV. HAZARDO         | US SUBSTANCES                                    | ppones for most hispan | Py cred CAS Margory                              | <u></u>                                     | <u>,</u>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| 01 CATEGORY         | 02 SUBSTANCE                                     | NAME                   | 03 CAS NUMBER                                    | 04 STORAGE/DI                               | SPOSAL METHOD                     | S CONCENTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OG MEASURE OF  |
|                     |                                                  |                        |                                                  | T                                           | · -                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     | <del></del>                                      |                        |                                                  | <u> </u>                                    |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     |                                                  |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del></del>    |
| ——— <del></del>     | <del></del>                                      |                        |                                                  | <del> </del>                                | <del></del>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del> </del>   |
|                     |                                                  |                        | <del> </del>                                     | <del> </del>                                | <del></del>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del> </del>   |
| <del></del>         |                                                  |                        | <del> </del>                                     | <del> </del>                                |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del> </del>   |
|                     |                                                  |                        | <b></b>                                          |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     |                                                  |                        |                                                  | <del></del>                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del></del>    |
| <del></del>         | <del></del>                                      |                        | <u></u>                                          | <del> </del>                                |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ļ              |
|                     |                                                  |                        | <u></u>                                          | <del> </del>                                |                                   | <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <del></del>    |
|                     |                                                  |                        | <u> </u>                                         |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     |                                                  |                        | <u></u>                                          | <u> </u>                                    |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     |                                                  |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     |                                                  |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     |                                                  |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     |                                                  |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
|                     |                                                  |                        |                                                  |                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| ľ                   |                                                  |                        |                                                  | 1                                           |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ī              |
| V. FEEDSTOO         | KS (See Aspendy by CAS Mank                      |                        | <u> </u>                                         | ·                                           |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| V. FEEDSTOO         | KS /See Aspendix for CAS Munic<br>01 FEEDSTOC    | <del></del>            | OZ CAS NUMBER                                    | CATEGORY                                    | 01 FEEDSTOCK                      | NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OZ CAS MILIASE |
|                     | <del></del>                                      | <del></del>            | 02 CAS NUMBER                                    | CATEGORY                                    | OI FEEDSTOCK                      | NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OZ CAS NUMBER  |

VI. SOURCES OF INFORMATION (Con specific restriction 0.9. 1 1010 line, surroll analysis, report

Suffolk County Department of Health Files

EPA FORM 2070-13(7-61)

FOS

FOS

## POTENTIAL HAZARDOUS WASTE SITE

| ı | L IDENTIFICATION |       |        |   |  |  |
|---|------------------|-------|--------|---|--|--|
|   | 01               | STATE | O3 aug | W |  |  |

| SEPA PART 3 - DESCRIPTION O                                                              | EINSPECTION REPORT F HAZARDOUS CONDITIONS AND INCIL                | 1 1 "                           | NI:W       |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------|------------|
| HAZARDOUS CONDITIONS AND INCIDENTS                                                       |                                                                    |                                 |            |
| DI & A. GROUNDWATER CONTAMINATION DI POPULATION POTENTIALLY AFFECTED/21,000              | 02 DBSERVED (DATE:                                                 | .) [] POTENTIAL                 | ☐ ALLEGED  |
| Analysis of groundwater sample concentration of upto 2.6 mg/l                            | s collected in February, 19<br>in nearby downgradient pri          | 086 indicated Z<br>ivate wells. | inc        |
| IT Ø B. SURFACE WATER CONTAMINATION<br>3 POPULATION POTENTIALLY AFFECTED:                | 02 OBSERVEO (DATE:                                                 | .] DOTENTIAL                    | O ALLEGED  |
| None reported.                                                                           |                                                                    |                                 |            |
| None reported.                                                                           |                                                                    | _) □ POTENTIAL                  | O ALLEGED  |
| 1 D. FIRE/EXPLOSIVE CONDITIONS 3 POPULATION POTENTIALLY AFFECTED:                        | 02 O OBSERVED (DATE                                                | _1 □ POTENTIAL                  | □ ALLEGED  |
| Fire Captain did not declare there is no known potential for                             |                                                                    |                                 | erefore,   |
| None reported.                                                                           | 02 © OBSERVED (DATE                                                | _) □ POTENTIAL                  | □ ALLEGED  |
| 1 20 F CONTAMINATION OF SOIL 3 AREA POTENTIALLY AFFECTED: UNKNOWN                        | 02 OBSERVED (DATE                                                  | _) OPOTENTIAL                   | ☐ ALLEGED  |
| Soil was sampled and found to bas Barium, Lead and Zinc.                                 | · •                                                                | s of heavy met                  | als such   |
| POPULATION POTENTIALLY AFFECTED: 21,000                                                  | 02 OBSERVED (DATE                                                  | _)   POTENTIAL                  | □ ALLEGEO  |
|                                                                                          |                                                                    |                                 | ال مليونون |
| Limited to the population serv<br>within 3-mile radius of the si                         | red by groundwater from the te.                                    | aquifer of cor                  |            |
| within 3-mile radius of the si                                                           | oz OBSERVED (DATE: NOV., 198                                       |                                 |            |
| within 3-mile radius of the si                                                           | 02 D OBSERVED (DATE NOV., 198<br>04 NARRATIVE DESCRIPTION          |                                 | ncern      |
| within 3-mile radius of the si  CXH. WORKER EXPOSURE/NUMY 3 WORKERS POTENTALLY AFFECTED: | 02 OBSERVED (DATE: NOV., 198<br>04 NARRATIVE DESCRIPTION<br>blast. |                                 | ncern      |

EPA FORM 2070-13 (7-81)

| POTENTI                                                                         | AL HAZARDOUS WASTE SITE                                   |             | PICATION    |
|---------------------------------------------------------------------------------|-----------------------------------------------------------|-------------|-------------|
| SIT SIT                                                                         | E INSPECTION REPORT OF HAZARDOUS CONDITIONS AND INCIDENTS | 1 1         | NI-W        |
| II. HAZARDOUS CONDITIONS AND INCIDENTS ICOM                                     |                                                           |             |             |
| OL CLI DAMAGE TO FLORA                                                          | 02 () OBSERVED (DATE)                                     | D POTENTIAL | () ALLEGED  |
| 04 NARRATIVE DESCRIPTION                                                        |                                                           |             |             |
| None reported.                                                                  |                                                           |             |             |
| 01   K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (INCAME RAPRES) OF RESCRIPTION | 02 OBSERVED (DATE)                                        | D POTENTIAL | O ALLEGED   |
| None reported.                                                                  |                                                           |             |             |
| 01 CONTAMINATION OF FOOD CHAIN                                                  | 02 OBSERVED (DATE:)                                       | - POTENTIAL | □ ALLEGED   |
| 04 NARRATIVE DESCRIPTION                                                        |                                                           |             |             |
| None reported.                                                                  |                                                           |             |             |
| 01 D M. UNSTABLE CONTAINMENT OF WASTES                                          | 02 ( OBSERVED (DATE)                                      | O POTENTIAL | O ALLEGED   |
| (3ant-AustriSionang Naural Loanng druns) 03 POPULATION POTENTIALLY AFFECTED:    | 04 NARRATIVE DESCRIPTION                                  |             |             |
| None reported.                                                                  |                                                           |             |             |
| 01   N DAMAGE TO OFFSITE PROPERTY                                               | 02 () OBSERVED (DATE)                                     | O POTENTIAL | T ALLEGED   |
| No potential exists.                                                            |                                                           |             |             |
| We potential exists.                                                            |                                                           |             |             |
| DI O CONTAMINATION OF SEWERS, STORM DRAINS, 1                                   | NWTPs 02 () OBSERVED (DATE:)                              | POTENTIAL   | . D ALLEGED |
| No potential exists.                                                            |                                                           |             |             |
| D1 C P ILLEGAL/UNAUTHORIZED DUMPING                                             | 02 C OBSERVED (DATE)                                      | D POTENTIAL | C ALLEGED   |
| No potential exists.                                                            |                                                           |             |             |
| DS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OF                                | R ALLEGED HAZARDS                                         |             |             |
|                                                                                 |                                                           |             |             |
| I. TOTAL POPULATION POTENTIALLY AFFECTED: >                                     | 21,000                                                    |             |             |
| V. COMMENTS                                                                     |                                                           |             |             |
|                                                                                 |                                                           |             |             |
|                                                                                 |                                                           |             |             |
| . SOURCES OF INFORMATION (Can assessed reference at. 9 g . as                   | ate Nee, Sample analysis, reports                         |             |             |
| Site inspection                                                                 |                                                           |             |             |
| Suffolk County Department of H                                                  | ealth Services Files.                                     |             |             |

EPA FORM 2070-13 (7-81)

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| _ | -   |

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

| L IDENTIFICATION |                |  |  |  |  |
|------------------|----------------|--|--|--|--|
| STATE 10         | OZ SITE MANGER |  |  |  |  |

| <b>OCIA</b>                                                          | PART 4 - PERM                          | IT AND DE          | CRIPTIVEINFO       | RMATION               | TAL 3V                  |
|----------------------------------------------------------------------|----------------------------------------|--------------------|--------------------|-----------------------|-------------------------|
| II. PERMIT INFORMATION                                               | 02 PERMIT NUMBER                       | 03 DATE IS         | SUED 04 EXPINATI   | ON DATE   05 COMMENTS |                         |
| 01 TYPE OF PERMIT ISSUED                                             | 02 PERMIT NUMBER                       | OZDATEG            | ISOED   OF EXPERIE | ON ONTE STOCKE        |                         |
| A NPOES                                                              |                                        |                    |                    |                       | - <u>-</u>              |
| □ 8 UIC                                                              |                                        |                    |                    |                       |                         |
| C AIR                                                                |                                        |                    |                    |                       | ···                     |
| O D RCRA                                                             |                                        |                    |                    |                       |                         |
| OE RORA INTERIM STATUS                                               |                                        |                    |                    |                       |                         |
| OF SPCCPLAN                                                          |                                        |                    |                    |                       |                         |
| G STATE (Specify)                                                    |                                        |                    |                    |                       |                         |
| TH LOCAL SURAN                                                       |                                        |                    |                    |                       |                         |
| OTHER (Specify)                                                      |                                        |                    |                    |                       |                         |
| D.J. NONE                                                            |                                        |                    |                    |                       |                         |
| III. SITE DESCRIPTION                                                |                                        |                    |                    |                       |                         |
| 01 STORAGE/DISPOSAL ICAGES OF THE CAMPI                              | 02 AMOUNT 03 UNIT                      | OF MEASURE         | 04 TREATMENT ICA   | ech of the eppy)      | 05 OTHER                |
| ☐ A SURFACE IMPOUNDMENT                                              |                                        |                    | A. INCENERAT       | ION                   | <b>1</b>                |
| □ 8 PILES                                                            |                                        |                    | B UNDERGRO         |                       | A BUILDINGS ON SITE     |
| C DRUMS, ABOVE GROUND                                                | <del></del>                            |                    | C. CHEMICAL        | PHYSICAL              | 17                      |
| D TANK, ABOVE GROUND                                                 |                                        |                    | D. BIOLOGICA       | L                     | <u> </u>                |
| C E TANK, BELOW GROUND                                               |                                        |                    | C E. WASTE OIL     | PROCESSING            | 06 AREA OF SITE         |
| D F LANDFILL                                                         |                                        |                    | F. SOLVENT R       | ECOVERY               | 13                      |
| G. LANDFARM                                                          | <del></del>                            |                    |                    | CYCUNG/RECOVERY       |                         |
| ☐ H OPEN DUMP                                                        |                                        |                    | H OTHER            | (Spoc47)              |                         |
| C I OTHER                                                            |                                        |                    |                    | •                     |                         |
| remaining secure con<br>by the Gruceis. Appr<br>the chemical storage | oximately 30 cu                        |                    |                    |                       |                         |
| V. CONTAINMENT                                                       |                                        |                    |                    |                       |                         |
| 1 CONTAINMENT OF WASTES (Chock smo)                                  |                                        |                    |                    |                       |                         |
| A. ADEQUATE, SECURE                                                  | B. MODERATE                            | □ C. 1N            | IADEQUATE, POOR    | D. INSECU             | IRE, UNSOUND, DANGEROUS |
| DZ DESCRIPTION OF DRUMS, DIKING, LINERS,                             | BANNERS, ETC.                          |                    |                    |                       |                         |
| No containment.                                                      |                                        |                    |                    |                       |                         |
| V. ACCESSIBILITY                                                     |                                        |                    |                    |                       |                         |
| 01 WASTE EASILY ACCESSIBLE.   YE                                     | 5 Ø NO                                 | <del></del>        |                    |                       |                         |
|                                                                      |                                        |                    |                    |                       |                         |
| I. SOURCES OF INFORMATION ICA-                                       | accest references, e.g. state Mes. sar | TOTAL STORY OF THE | 714)               |                       |                         |
| Site Inspection<br>Suffolk County Depar                              | tment of Health                        | n Servic           | es Files.          |                       |                         |
| PA FORM 2070-13 (7-61)                                               |                                        |                    | <del></del>        |                       |                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | POTE                                                                                                  | NTIAL HAZAR          | DOUS WASTE                                              | SITE                                                                                |               | NTIFICATION                        |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|------------------------------------|---------------------|
| <b>ŞEPA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       | SITE INSPECT         |                                                         |                                                                                     | 01 STA        | NI-W                               |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PART 5 - WATER                                                                                        | L DEMOGRAPHI         | C, AND ENVIROR                                          | IMENTAL DATA                                                                        | <u> </u>      |                                    |                     |
| II. DRINKING WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SUPPLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                       |                      |                                                         |                                                                                     |               |                                    |                     |
| O1 TYPE OF DRINKING SUP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                                                                                     | 02 STATUS            |                                                         |                                                                                     | 03            | DISTANCE TO SITE                   | _                   |
| (Chant so south core)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | WELL                                                                                                  | ENDANGERE            | D AFFECTED                                              | MONITORED                                                                           | ļ             |                                    |                     |
| COMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SURFACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8 03                                                                                                  | A. C                 | 8. 🗆                                                    | C. C                                                                                | ۱ ۸.          | 1.0                                |                     |
| NON-COMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | C. 🗆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 03                                                                                                  | ۵.۵                  | €. □                                                    | F. 🔾                                                                                | <b>B</b> .    | 0.05 (mi)                          |                     |
| III. GROUNDWATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       | <u> </u>             |                                                         |                                                                                     |               |                                    | -                   |
| OI GROUNDWATER USE IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | VICINITY (Cause o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ~                                                                                                     |                      |                                                         |                                                                                     |               |                                    |                     |
| Ö. A. OHLY SOURCE FO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A DANKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | C 8 DAINKING (Other sources prote COMMERCIAL, IN (No other water source)                              | IOUSTRIAL, IMPIGATIO | نمجه محمدان                                             | CIAL, INCUSTRIAL, IRRIGA                                                            | TON C         | ) D. NOT USED, UNUSEA              | ale<br>a            |
| 02 POPULATION SERVED B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Y GROUND WAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ea>21,000                                                                                             | _                    | 03 DISTANCE TO NE                                       | AREST DRINKING WATER                                                                | <b>WEUL</b>   | .05 (mi)                           |                     |
| 04 DEPTH TO GROUNOWAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EA .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OS DIRECTION OF GRO                                                                                   | DUNDWATER FLOW       | 08 DEPTH TO AQUIFE                                      | R 07 POTENTIAL YIE<br>OF AQUIFER                                                    | 5             | 08 SOLE SOURCE AOL                 | IIFER               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (ft)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SSE                                                                                                   |                      | OF CONCERN                                              | (m)                                                                                 | (gpd)         | XO YES O                           |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |                      |                                                         |                                                                                     |               |                                    | <b>VO</b>           |
| County Wate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mile rad<br>r Author                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | lius of the                                                                                           | site, the a          |                                                         | concern is us<br>Corporation                                                        | sed b         |                                    | folk                |
| Within a 3-<br>County Wate<br>of private<br>OFFICHARGE AREA<br>TO YES   COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mile rad<br>r Author                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | lius of the                                                                                           | site, the a          | Lake Water                                              | concern is u<br>Corporation                                                         | sed b         |                                    | folk                |
| Within a 3-<br>County Wate<br>of private                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mile rad<br>r Author                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | lius of the                                                                                           | site, the a          | Lake Water                                              | concern is u<br>Corporation                                                         | sed b         |                                    | folk                |
| Within a 3-County Wate of private | mile rac<br>r Author<br>wells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | lius of the                                                                                           | site, the a          | Lake Water                                              | concern is u<br>Corporation                                                         | sed b         |                                    | folk                |
| Within a 3-<br>County Wate<br>of private<br>of private<br>on RECHARGE AREA<br>O YES COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mile rad<br>r Author<br>wells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dius of the rity well fi                                                                              | site, the a          | Lake Water  I DISCHARGE AREA  O YES COMM                | concern is u<br>Corporation                                                         | sed b<br>well |                                    | folk                |
| Within a 3-County Water of private of surface water users of surface water users of surface water users of prinking water of private of p | mile rad<br>r Author<br>wells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dius of the rity well fi                                                                              | site, the a          | Lake Water  I DISCHARGE AREA  O YES COMM                | concern is us<br>Corporation                                                        | sed b<br>well | s and a num                        | folk<br>ber         |
| Within a 3-County Water of private of surface water users of surface water users of surface water users of prinking water of private of priv | mile rad<br>r Author<br>wells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dius of the rity well fi                                                                              | site, the a          | Lake Water  I DISCHARGE AREA  O YES COMM                | concern is us<br>Corporation                                                        | sed b<br>well | s and a num                        | folk<br>ber         |
| Within a 3- County Wate of private of private OF RECHARGE AREA TO YES COMMENTS OF SURFACE WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mile rad<br>r Author<br>wells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dius of the rity well fi                                                                              | site, the a          | Lake Water  I DISCHARGE AREA  O YES COMM                | Concern is us Comporation Sents                                                     | sed b<br>well | S AND A NUM                        | folk<br>ber         |
| Within a 3- County Wate of private of private  OF RECHARGE AREA TO YES COMMENTS ON NO  IV. SURFACE WATER OF  | mile racer Author wells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dius of the rity well fi                                                                              | site, the a          | Lake Water  I DISCHARGE AREA  O YES COMM                | Concern is use Comporation Sents  AFFECTED                                          | sed b<br>well | D. NOT CURRENTLY O                 | folk<br>ber         |
| Within a 3- County Wate of private of private  OF RECHARGE AREA SO YES COMMENTS ON NO  IV. SURFACE WATER OF  | mile rader Author wells.  CREATION R SOURCE  AFFECTED BOOK  Crook  Crook                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dius of the rity well fi                                                                              | site, the a          | Lake Water  I DISCHARGE AREA  O YES COMM                | Concern is us Comporation Sents                                                     | sed b<br>well | S AND A NUM                        | folk<br>ber         |
| Within a 3-County Water of private of the comments of the comment of the co | mile rader Author wells.  CREATION A SOURCE Crook  Crook  Crook  Crook                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | D 8. IRRIGATION IMPORTAN                                                                              | site, the a          | Lake Water  I DISCHARGE AREA  O YES COMM                | Concern is use Comporation  MENTS  AFFECTED  O                                      | sed b<br>well | D. NOT CURRENTLY CONSTANCE TO SITE | folk<br>ber         |
| Within a 3-County Water of private of surface water users of surface water users of surface water users of surface water users of private of pr | mile rader Author wells.  CREATION R SOURCE  AFFECTED BOOK  Creek  Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D 8. IRRIGATION IMPORTAN                                                                              | site, the a          | Lake Water  I DISCHARGE AREA  O YES COMM                | Concern is use Comporation  MENTS  AFFECTED  O                                      | sed b         | DISTANCE TO SITE                   | folk<br>ber         |
| Within a 3-County Water of private of the  | mile racer Author wells.  CREATION A SOURCE Creek  Creek  Creek  Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | D 8. IRRIGATION IMPORTAN                                                                              | THAEE (3 c. 33       | Lake Water  I DISCHARGE AREA  O YES COMM                | Concern is use Comporation  RENTS  RCIAL INDUSTRIAL  AFFECTED  O                    | sed b well    | DISTANCE TO SITE                   | folk<br>ber         |
| Within a 3- County Wate of private of privat | mile racer Author wells.  CREATION R SOURCE  CREATION CRE | B. IRRIGATION  DES OF WATER  CINFORMATION  D(2) MILES OF SITE  18,405  NO OF PERSONS                  | THAEE (3 c. 33       | Lake Water  II DISCHARGE AREA  I YES COMM  NO  C. COMME | Concern is us Componention  RENTS  RCIAL, INDUSTRIAL  AFFECTED  OZ DISTANCE TO NEAR | sed b well    | D. NOT CURRENTLY CONTRACTOR SITE   | folk<br>ber<br>JSEO |
| Within a 3- County Wate of private of comments comments of surface water of surface of surfac | mile racer Author wells.  CREATION R SOURCE  CREATION CRE | D B. IRRIGATION  DES OF WATER  CINFORMATION  D(2) MILES OF SITE  18,405  MO OF PERSONS  MILES OF SITE | THAEE (3 c. 33       | Lake Water  II DISCHARGE AREA  I YES COMM  NO  C. COMME | Corporation  Corporation  AFFECTED  OZDISTANCE TO NEAR  0.01                        | sed b well    | D. NOT CURRENTLY CONTRACTOR SITE   | folk<br>ber         |

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|          | INCATION       |
|----------|----------------|
| OI STATE | OZ SITE HEADER |

| 0 = 0.4                                                                    |                                          | POTENTIAL MAZAI                                                    |                                             | . 3116                   | 01 87            | ATE 02 SITE HANDER                                  |
|----------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|--------------------------|------------------|-----------------------------------------------------|
| SEPA                                                                       | PART                                     | SITE INSPEC<br>S-WATER, DEMOGRAPH                                  | ITION REPORT<br>IIC, AND ENVIRO             | NMENTAL DAT              | ra 🗀             | ATE OF STEP                                         |
| VI. ENVIRONMENTAL INFORMA                                                  |                                          |                                                                    |                                             |                          |                  |                                                     |
| OI PERMEABILITY OF UNSATURATED ZO                                          | Orde (Cheer on                           |                                                                    |                                             |                          |                  |                                                     |
| □ A, 10 <sup>-4</sup> - 10 <sup>-</sup>                                    | © C/N/SeC                                | □ B 10-4 - 10-4 cm/sec □                                           | I C. 10 <sup>-4</sup> - 10 <sup>-3</sup> cm | √sec 🔯 0. GREA           | TER THAN         | 0-3 cm/sec                                          |
| 02 PERMEABILITY OF BEDROCK (CARCA O                                        | ~*)                                      |                                                                    |                                             |                          |                  | · · · · · · · · · · · · · · · · · · ·               |
| XJ A IMPERM                                                                | EABLE                                    | B. RELATIVELY IMPERMEABL                                           | LE C. RELATIVEL                             | LY PERMEABLE             | O. VERY          | PERMEABLE                                           |
| 03 DEPTH TO BEDROCK                                                        | 04 DEPTH C                               | OF CONTAMINATED SOIL ZONE                                          | OS SOIL P                                   | н                        |                  |                                                     |
| Approx. 1800 <sub>(n)</sub>                                                |                                          | 70W17(N)                                                           |                                             | nown                     |                  |                                                     |
| 06 NET PRECIPITATION                                                       |                                          | AR 24 HOUR RAINFALL                                                | OR SLOPE<br>SITE SLOPE                      | DIRECTION OF S           | HTE SLOPE        | TERRAIN AVERAGE SLOPE                               |
| 23   101                                                                   | <u>2.</u>                                | . 8(in)                                                            | 0-1                                         | N/A                      |                  | 0-3                                                 |
| 09 FLOOD POTENTIAL                                                         |                                          | O SITE IS ON BARRI                                                 | IER ISLAND, COASTA                          |                          | OCA BIVER        | DINE SI COOMAY                                      |
| SITE IS IN UNKNOWN YEAR FLO                                                |                                          | U SHE IS ON BANK                                                   | IER ISCARD, COASTA                          | N. Milan Malanu A        | VIEA, MYEN       |                                                     |
| 11 DISTANCE TO WETLANDS IS NO TOWN                                         | ~                                        | <del>-</del> .                                                     | 12 DISTANCE TO CAVE                         | TICAL HABITAT (of one    | Margarité 201201 | J                                                   |
| ESTUARINE                                                                  |                                          | OTHER                                                              |                                             |                          |                  | _ (mi)                                              |
| A. 1.3 (mi)                                                                | 8 _                                      | 0.47_(mi)                                                          | ENDANGER                                    | ED SPECIES:              | ione             | _ <del>_</del>                                      |
| The site is located Town of Bellport, The area is in 0 - south - southeast | osuaroun<br>ed abou<br>New Yo<br>- 3% sl | at 0.5 mile south o<br>ork. The site eleva-<br>lope. Drainage acro | of Long Islation is abx                     | out 40 fee<br>dy area ap | oad tra          | acks within the<br>e mean sea level<br>to be toward |
| east of the site i<br>to the Bay to beco<br>approximately 2.2              | ls Beav<br>Ome tid                       | ver Dam Creek which<br>dal wetlands. Werth                         | h runs throi                                | ugh the vi               | llage o          | of Brookhaven                                       |
|                                                                            |                                          |                                                                    |                                             |                          |                  |                                                     |
| VII. SOURCES OF INFORMATION                                                | ICAO MORANA I                            | referenced, e.g., state Mes, sample analysis, i                    | 70001U                                      |                          |                  |                                                     |
| USCS Topographic m<br>New York State Dep                                   |                                          | t of Environmental                                                 | l Conservati                                | ion                      |                  |                                                     |

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| <b>ŞEPA</b>                | •                             | POTENTIAL HAZARDOUS WASTE SITE<br>SITE INSPECTION REPORT<br>ART 6 - SAMPLE AND FIELD INFORMATION | L IDENTIFICATION OF STATE OF STE HARMEN |
|----------------------------|-------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------|
| II. SAMPLES TAKEN          |                               |                                                                                                  |                                         |
| SAMPLE TYPE                | OI NUMBER OF<br>SAMPLES TAKEN | 02 SAMPLES SENT TO                                                                               | OJ ESTIMATE<br>RESULTS                  |
| GROUNDWATER                |                               |                                                                                                  |                                         |
| SURFACE WATER              |                               |                                                                                                  |                                         |
| WASTE                      |                               |                                                                                                  |                                         |
| AIR                        |                               |                                                                                                  |                                         |
| RUNOFF                     |                               |                                                                                                  |                                         |
| SPILL                      |                               |                                                                                                  |                                         |
| SOIL                       |                               |                                                                                                  |                                         |
| VEGETATION                 |                               |                                                                                                  |                                         |
| OTHER                      |                               |                                                                                                  |                                         |
| II. FIELD MEASUREMENTS TA  | KEN                           |                                                                                                  |                                         |
| I TYPE                     | 02 COMMENTS                   |                                                                                                  |                                         |
| Air Monitoring             | No reading                    | s above ambient background were n                                                                | noted.                                  |
| vith HNu Photoioni         |                               |                                                                                                  |                                         |
| ation Detector             |                               |                                                                                                  |                                         |
|                            |                               |                                                                                                  |                                         |
| V. PHOTOGRAPHS AND MAP     | S                             |                                                                                                  |                                         |
| OI TYPE TO GROUND O AERIAL |                               | 02 PN CUSTODY OF YEC, Inc., Valley Cot                                                           | tage, New York.                         |
| XD YES YEC,                | Inc., Valle                   | y Cottage, New York.                                                                             |                                         |
|                            | CTED (Previde names de        |                                                                                                  |                                         |

VI. SOURCES OF INFORMATION (Can append references, a.g., state have, summer analysis, reports)

Site Inspection

EPA FORM 2070-13 (7-81)

|                                            | £                                     | OTENTIAL HAZ              | ZARDOUS WASTE SITE                        | LIDENTIF                 |                 |  |
|--------------------------------------------|---------------------------------------|---------------------------|-------------------------------------------|--------------------------|-----------------|--|
| <b>\$EPA</b>                               | •                                     | SITE INSP                 | ECTION REPORT<br>NER INFORMATION          | OI STATE OF STEEN        |                 |  |
| II. CURRENT OWNER(S)                       |                                       |                           | PARENT COMPANY :                          |                          |                 |  |
| POLIX Grucci, Jr                           |                                       | 02 D+8 NUMBER             | De NAME                                   | OB NAME                  |                 |  |
| One Grucci Lane                            |                                       | 04 SIC CODE               | 10 STREET ADORESS IP O dos RPD # ore I    |                          | I I SIC CODE    |  |
| One Gruces Taine                           | 00 STATE                              | 07 Z# CODE                | 1 2 CITY                                  | 13 STATE                 | 14 ZIP CODE     |  |
| Brookhaven                                 | NY                                    | 11719                     |                                           |                          |                 |  |
| Concetta Grucci                            | · · · · · · · · · · · · · · · · · · · | Pagente 8+0 50            | OB NAME                                   |                          | DO D+8 MUMBER   |  |
| 03 STREET ADDRESS IF O DAL MOT. HE !       |                                       | 04 SIC CODE               | 10 STREET ADDRESS (FO Box, MO F. ove )    | <del></del>              | I I SIC CODE    |  |
| One Grucci Lane                            |                                       |                           | P                                         |                          |                 |  |
| Brookhaven                                 | OG STATE<br>NY                        | 11719                     | 12 CITY                                   | 13 STATE                 | 14 UP COD€      |  |
| OI NAME                                    |                                       | 02 D+8 MJM86R             | 0e NAME                                   |                          | 09 0 + 8 NUMBER |  |
| 03 STREET ADORESS (P 0 dec. AFQ 4, onl )   |                                       | 04 SIC CODE               | 10 STREET ADDRESS (P.O. doe, AFO F. occ.) | , .                      | 11 SIC COD€     |  |
| 05 CITY                                    | 06 STATE                              | 07 210 COOE               | 15 01A                                    | 13 STATE                 | 14 2P COOE      |  |
| DI NAME                                    |                                       | 02 D+8 NUMBER             | OB NAME                                   |                          | 090+8 MM8EA     |  |
| DESTREET ADDRESS IP O des MOP ont          |                                       | 04 SIC CODE               | 10 STREET ADDRESS IP O doe, MOP, one      |                          | 11 SIC CODE     |  |
| 03 CITY                                    | OB STATE                              | OF ZIP COOK               | 13014                                     | 13 STATE                 | 14 ZIP CODE     |  |
| III. PREVIOUS OWNER(S) معاملة العالم       | tari Bruj                             |                           | IV. REALTY OWNER(S) IF ADDRESSED.         | the mage rose and first) |                 |  |
| Felix Grucci, Sr.                          |                                       | 02 D+8 NUMBER             | 01 NAME                                   |                          | 03 0+8 MUMBER   |  |
| 03 STREET ADDRESS IP O. Dos, NO P. coc.)   |                                       | 04 SIC CODE               | 03 STREET ADDRESS (P.O. Box. AFO F. acc   | i                        | 04 SIC CODE     |  |
| One Crucci Lane                            | 10007075                              |                           | los circ                                  |                          |                 |  |
| Brookhaven                                 | NY                                    | 11719                     | os cirv                                   | OS STATE                 | OT ZIP COOE     |  |
| DI NAME                                    | -                                     | 02 D+8 MJM86R             | 01 NAME                                   |                          | 02 D+8 NUMBER   |  |
| 03 STREET ADDRESS (P. D. doe, APD P. occ.) |                                       | 04 SIC CODE               | 03 STREET ADDRESS IP 0 800, MFD F. OIC    |                          | 04 SIC CODE     |  |
| S CITY                                     | 06 STATE                              | 07 ZIP COOE               | 03 CITY                                   | OS STATE                 | O7 ZIP COOE     |  |
| I NAME                                     |                                       | 02 D+8 NUMBER             | Q1 NAME                                   |                          | 03 0+8 MM8ER    |  |
| 3 STREET ADDRESS (P.O. dos., APD P. one )  |                                       | 04 SIC CODE               | O3 STREET ADDRESS (P 0 dos. NO r ont )    |                          | 04 SIC COO€     |  |
| 3CIFY .                                    | 00 STATE                              | 07 ZIP COOE               | os arv                                    | 04 STATE                 | 07 2IP COOE     |  |
| V. SOURCES OF INFORMATION IC               | No specific references, (             | g , Maro Nos, sample mays | TE. FORGETHA                              |                          |                 |  |
| Site Interview                             |                                       | <u> </u>                  |                                           |                          |                 |  |
|                                            |                                       |                           |                                           |                          |                 |  |
| 'A FORM 2070-13 (7-81)                     |                                       | _                         |                                           |                          |                 |  |

|                           |                     | PC             | TENT     | IAL HAZ        | ARDOUS WASTE SITE                    |                              | NTIFIC   |              |
|---------------------------|---------------------|----------------|----------|----------------|--------------------------------------|------------------------------|----------|--------------|
| <b>\$EPA</b>              |                     | •              | Si       | te inspe       | ECTION REPORT<br>ATOR INFORMATION    | O1 STATE O2 SITE MANGER NI.W |          |              |
| II. CURRENT OPERAT        | OR insues and the   |                |          |                | OPERATOR'S PARENT COMPA              | ANY 10 marshare              |          | <del></del>  |
| OI HAM                    |                     |                | 02 D+8   | HAMBER         | 10 MANG                              |                              | 11       | 0+8 MMSEA .  |
| None                      |                     | )              |          |                |                                      |                              |          |              |
| 03 STREET ADDRESS IP 0. 6 | Das. AFD F. con )   |                | 04.5     | SIC COOE       | 12 STREET ADDRESS IP 0 and, MO P. on | 11                           |          | 13 SC CO04   |
| as City                   |                     | 06 STATE       | 07 24° C | 004            | 14 CITY                              | 15.4                         | STATE 10 | UP COOS      |
| 06 YEARS OF OPERATION     | 00 NAME OF OWNER    |                |          |                |                                      |                              |          |              |
| III. PREVIOUS OPERA       | TOR(S) A z and room |                |          | W from doment  | PREVIOUS OPERATORS' PARE             | ENT COMPAN                   | ies "    |              |
| Felix Grucci              |                     |                |          | нумеся         | 10 NAME                              |                              |          | 1 D+B NUMBER |
| One Grucci La             | -                   |                | 04.8     | NC COOL        | 12 STREET ADDRESS (P.O. See, MO.P. H | 10-1                         |          | 13 SIC CODE  |
| 04 CITY                   |                     | 04 STATE       | 07 ZP (  | 2006           | 14 atv                               | 167                          | STATE 1  | 8 DP COOR    |
| Brookhaven                |                     | NY             |          | 719            |                                      |                              |          |              |
| OB TEAMS OF OPERATION     | 08 NAME OF OWNER    | DURNOG THE     | S PERIOR | <del></del>    | <del></del>                          |                              |          |              |
| 57 years                  | Felix Gr            | ucci           | -        |                |                                      |                              |          |              |
| Concetta Gr               | cucci               |                | 02 0+8   | NUMBER         | 10 NAME                              |                              |          | 1 0+8 NUMBER |
| One Grucci                |                     |                | 04 \$    | uc coor        | 12 STREET ADDRESS IP 0 Box, Mar, on  | 0.3                          |          | 13 SIC CODE  |
| Brookhaven                |                     | 06 STATE<br>NY |          | <b>71</b> 9    | 1+ GITY                              | 16:                          | STATE    | e ZP COOE    |
| 57 years                  | Pelix Gr            |                | 4 PERIOR | <b>,</b>       |                                      |                              |          |              |
| OI NAME                   | reary G             |                | 020+8    | MANAGER        | 10 NAME                              |                              |          | 1 D+B NUMBER |
|                           |                     |                |          |                |                                      |                              |          |              |
| 03 STREET ADDRESS (F 0 ac | ps, 60'0 4, em.)    |                | 04 8     | NC COOL        | 12 STREET ADDRESS (P G dec. MD P. on | E )                          |          | 13 SIC COOE  |
| OS CITY                   |                     | 06 STATE       | 07 200   | 004            | 14 GTV                               | 15                           | STATE    | 9 ∠P COOE    |
| DE YEARS OF OPERATION     | OS HAME OF OWNER    | CUPERTY THE    | 8 PERIOD | ,              |                                      |                              |          | <u> </u>     |
| IV. SOURCES OF INFO       | AMATION CO.         |                |          |                |                                      |                              | _        |              |
|                           |                     | -              | <u> </u> | 10, 10 mm anny | att ubeut                            |                              |          |              |
|                           |                     |                |          |                |                                      |                              |          |              |
| Site Intervie             | ∋w.                 |                |          |                |                                      |                              |          |              |
|                           |                     |                |          |                |                                      |                              |          |              |
|                           | •                   |                |          |                |                                      |                              |          |              |
|                           |                     |                |          |                |                                      |                              |          |              |
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|                           |                     |                |          |                |                                      |                              |          |              |
|                           |                     |                |          |                | •                                    |                              |          |              |

PAPORM 1070-13(7-61)

|                                |                            | PC          | OTE    | ENTIAL HAZAF       | IDOUS WASTE SITE                          | LIDENTIF                     |                |             |
|--------------------------------|----------------------------|-------------|--------|--------------------|-------------------------------------------|------------------------------|----------------|-------------|
| <b>\$EPA</b>                   |                            |             |        | SITE INSPEC        | TION REPORT<br>OR INFORMATION             | OI STATE OF STE MARKER NII:W |                |             |
| IL CURRENT OPERAT              | OR (Annual & attenues from |             |        |                    | OPERATOR'S PARENT COMPANY                 |                              |                |             |
| OI HAME                        |                            |             | 02 (   | D+8 NUMBER         | 10 NAME                                   |                              | 116            | A34MUM 8+C  |
| None                           |                            |             |        |                    |                                           |                              |                |             |
| DO STREET ADDRESS IP D         | Do AFO F OOL )             |             |        | 04 SIC COD€        | 12 STREET ADDRESS (P.O. des, AFG J. onl)  |                              |                | 13 SIC CODE |
| os city                        |                            | 04 STATE    | 07     | ZIP COOL           | I + CITY                                  | 13 STATE                     | 10             | THE COOK    |
| OS YEARS OF OPERATION          | OS NAME OF OWNER           |             |        |                    |                                           | •                            | •              |             |
| III. PREVIOUS OPERA            | TORISIA Asserted           |             | ~ 1 a  | Morani kram awnasi | PREVIOUS OPERATORS' PARENT CO             | MPANIES                      |                |             |
| Pelix Grucci                   |                            |             |        | D+E NUMBER         | 10 NAME                                   | <del>-</del>                 |                | D+8 NUMBER  |
| OJ STREET ADORESS IF Q. 4      | ben, AFD F, em.j           |             | ╌      | 04 SIC CODE        | 12 STREET ADDRESS (P.Q. Box, AFD P. occ.) |                              | <u> </u>       | 13 SIC CODE |
| One Grucci La                  | ane                        |             | - 1    |                    |                                           |                              |                |             |
| 04 CITY                        |                            | 04 STATE    | 07     | UP CODE            | 14 atv                                    | 15 STATE                     | 10             | ZIP CODE    |
| Brookhaven                     |                            | ŃΥ          |        | 11719              |                                           |                              |                |             |
| OR YEARS OF OPERATION          | OB NAME OF OWNER           | DURING THE  | S PE   | MOD                |                                           |                              | <del>-</del> - |             |
| 57 years                       |                            |             |        |                    |                                           |                              |                |             |
| Q1 NAME                        |                            |             | 03 (   | 0+8 NUMBER         | 10 NAME                                   |                              | 111            | 0+8 NUMBER  |
| O3 STREET ADDRESS IP O A       | 54, A/O F, 565 J           |             | _      | 04 SIC CODE        | 12 STREET ADDRESS IP O DOS, APD F. occ.)  |                              | 1_             | 13 SIC CODE |
| OS CITY                        |                            | OG STATE    | 07     | ZIP CODE           | 14 GIY                                    | 15 STATE                     | 10             | ZIP COOE    |
| or YEARS OF OPERATION 57 years | 04 NAME OF OWNER           | DURING THE  | 4 PE   | PIOO               |                                           |                              |                |             |
| 01 NAME                        |                            |             | 02 (   | D+B NUMBER         | 10 NAME                                   | _                            | 111            | D+B MIMBER  |
| O STREET ADDRESS / O M         | ы, AFD 8, em. j            |             | L      | 94 BIC CODE        | 12 STREET ADDRESS (P.O. des, APO F. occ.) |                              |                | 13 SIC CODE |
| os CiTY                        |                            | OS STATE    | 02.2   | 2004               | I + GITY                                  | TIA STATI                    | E 1.0          | ZIP CODE    |
|                                |                            |             |        |                    |                                           |                              | "              | 27 0000     |
| 06 YEARS OF OPERATION          | 00 NAME OF OWNER           | XUMBIG THE  | s re   | MOD                |                                           | !                            | -              | ,           |
| IV. SOURCES OF INFO            | AMATION (Can appendix      | 70707000L 0 | g., se |                    | Tagental                                  |                              |                |             |
|                                |                            |             |        |                    | 55555555                                  |                              |                |             |
| Site Intervie                  | 284                        |             |        |                    |                                           |                              |                |             |
| DICC INCELVIC                  | >w .                       |             |        |                    |                                           |                              |                |             |
|                                |                            |             |        |                    |                                           |                              |                |             |
|                                |                            |             |        |                    |                                           |                              |                |             |
|                                |                            |             |        |                    |                                           |                              |                |             |
|                                |                            |             |        |                    |                                           |                              |                |             |
|                                |                            |             |        |                    |                                           |                              |                |             |
|                                |                            |             |        |                    |                                           |                              |                |             |
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|                                |                            |             |        |                    |                                           |                              |                |             |

EPA FORM 2070-13 (7-61)

|                                          | . <b>F</b> | OTENTIAL HAZ                 | ARDOUS WASTE SITE                        | LIDENTIFICATION |               |  |
|------------------------------------------|------------|------------------------------|------------------------------------------|-----------------|---------------|--|
| <b>SEPA</b>                              |            | SITE INSPE<br>9 - GENERATORT | O1 STATE O2 STE MANSA<br>NJ:W            |                 |               |  |
| I. ON-SITE GENERATOR                     |            |                              |                                          |                 |               |  |
| ) NAME                                   |            | G2 D+8 NUMBER                |                                          |                 |               |  |
| STREET ADDRESS IP 0 dos AFD P OIC        |            | 04 SIC CODE                  | 7                                        |                 |               |  |
| DS CITY                                  | De STATE   | 07 2# COOE                   | 7                                        |                 |               |  |
| III. OFF-SITE GENERATOR(S)               |            |                              |                                          | loop            |               |  |
| D1 NAME                                  |            | 02 D+8 NUMBER                | 01 NAME                                  | 0201            | +8 NUMBER     |  |
| DJ STREET ADDRESS IP O Box. APD F. one ) |            | 04 SIC COOE                  | 03 STREET ADDRESS IP 0 dos, MOP. on      |                 | 04 SIC CODE   |  |
| os arv                                   | 06 STATE   | O7 21P CODE                  | os carv                                  | 00 STATE 07 24  | ⊮ COD€        |  |
| DI NAME                                  |            | 02 0+8 NUMBER                | 01 NAME                                  | 020             | +8 NUMBER     |  |
| 3 STREET ADORESS (P 0 day, MFD P. mc.)   |            | 04 SIC CODE                  | 03 STREET ADORESS IP 0 dos, MD P. on.    | •               | 04 SIC CODE   |  |
| 08 CITY                                  | 04 STATE   | 07 21P COOE                  | 02 C1A                                   | 06 STATE 07 21  | P COOE        |  |
| IV. TRANSPORTER(S)                       |            |                              | · · · · · · · · · · · · · · · · · · ·    |                 |               |  |
| ) NAME                                   | -          | 02 D+8 NUMBER                | Q1 NAME                                  | Ö2 0            | + 8 NUMBER    |  |
| D3 STREET ADDRESS (P.O. Bos, AFD F. MI.) |            | 04 SIC CODE                  | 03 STREET ADDRESS (P O Box. AFO P. osc.) | ,               | 04 SIC CODE   |  |
| s city                                   | 08 STATE   | O7 ZIP CODE                  | 03 CITY                                  | 06 STATE OF Z   | <b>≫</b> COO4 |  |
| I NAME                                   |            | 02 D+8 NUMBER                | 01 HAME                                  | 03 0            | R38MUM 8+C    |  |
| 3 STREET ADORESS (P.O. Doc. AFO.F. onc.) |            | 04 SIC CODE                  | 03 STREET ADDRESS IP 0 Box. AFO P. oic   | ,               | 04 SIC COD€   |  |
| s City                                   | OG STATE   | 07 21P COOE                  | 03 CITY                                  | 00 STATE 07 Z   | P CODE        |  |
|                                          |            | 1                            |                                          | 1 1             |               |  |
| /. SOURCES OF INFORMATION (Coo           |            |                              |                                          |                 |               |  |

EPA FORM 2070-12 (7-61)

|                                                           | POTENTIAL HAZARDO         | OUS WASTE SITE                                        | L IDENTIFICATION    |
|-----------------------------------------------------------|---------------------------|-------------------------------------------------------|---------------------|
| <b>ŞEPA</b>                                               | SITE INSPECTIO            | ON REPORT                                             | NI:W                |
|                                                           | PARI 10 - PAGI REGE       | JUSE VOILABLES                                        |                     |
| II. PAST RESPONSE ACTIVITIES  01   A. WATER SUPPLY CLOSED | O2 DATE                   | 03 AGENCY                                             |                     |
| 04 DESCRIPTION                                            |                           |                                                       |                     |
| 01 D B TEMPORARY WATER SUPPLY<br>04 DESCRIPTION           |                           |                                                       |                     |
| 01 C. PERMANENT WATER SUPPLY<br>04 DESCRIPTION            | PROVIDED 02 DATE          | O3 AGENCY                                             |                     |
| 01 D. SPRLED MATERIAL REMOVES<br>04 DESCRIPTION           | O2 DATE                   | O3 AGENCY                                             |                     |
|                                                           | i.ft. volume of soil u    | Dec. 1983 or AGENCY underneath chemical store removed |                     |
| soil surrounding two spi                                  | 1.10d Daris green drum    | IIS WERE REINOVEG.  Nov. 1983 OJAGENCY                | oversight by NYSDEC |
|                                                           |                           | ed throughout the site                                |                     |
| were repackaged and remo                                  | oved by Marine Polluti    | ion Control.                                          | ·                   |
| 01 (1) Q WASTE DISPOSED ELSEWHER                          | RE 02 DATE                | 1983 OJ AGENCY                                        | Oversight by NYSDEC |
| O4 OESCRIPTION Chemicals s<br>City Landfill.              | cattered by blast and     | l soils excavated were                                | disposed at Model   |
| 01 () H ON SITE BURIAL<br>04 DESCRIPTION                  | 02 DATE                   | 03 AGENCY                                             |                     |
| 01   I. IN SITU CHEMICAL TREATMEN<br>04 DESCRIPTION       | T OZ DATE                 | O3 AGENCY                                             |                     |
| 01  J. IN SITU BIOLOGICAL TREATME<br>04 DESCRIPTION       | ENT O2 DATE               | 03 AGENCY                                             |                     |
| 01 () K. IN SITU PHYSICAL TREATMEN<br>04 DESCRIPTION      | O2 DATE                   | 03 AGENCY                                             |                     |
| 01 CL ENCAPSULATION<br>04 DESCRIPTION                     | O2 DATE                   | 03 AGENCY                                             |                     |
| 01 DM. EMERGENCY WASTE TREATM<br>04 DESCRIPTION           | NEMT 02 DATE              | 03 AGENCY                                             |                     |
| 01 (1) N. CUTOFF WALLS<br>04 DESCRIPTION                  | 02 DATE                   | O3 AGENCY                                             |                     |
| 01 () O. EMERGENCY DIKING/SURFAC<br>04 DESCRIPTION        | E WATER DIVERSION 02 DATE | 03 AGENCY                                             |                     |
| 01 DP CUTOFF TRENCHES/SUMP<br>04 DESCRIPTION              | 02 DATE                   | 03 AGENCY                                             |                     |
| 01 D O. SUBSURFACE CUTOFF WALL<br>04 DESCRIPTION          | 02 DATE                   | " 03 AGENCY                                           |                     |

EPA FORM 2070-13(7-01)

|           | E D2 STE MARCA<br>NI:W |
|-----------|------------------------|
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| 03 AGENCY |                        |
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| O3 AGENCY |                        |
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| O3 AGENCY |                        |
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| L IDENT  | L IDENTIFICATION   |  |  |  |  |  |  |
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| OI STATE | REMARKS TO STAR SO |  |  |  |  |  |  |

| SEPA                                  | POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION | OI STATE OF SITE NAMES NILW |
|---------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------|
| ENFORCEMENT INFORMATION               |                                                                                         |                             |
| DI PAST REGULATORVIENFORCEMENT ACTION |                                                                                         |                             |
| DESCRIPTION OF FEDERAL, STATE, LOCAL  |                                                                                         | _ <del>_</del>              |
|                                       |                                                                                         |                             |
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|                                       |                                                                                         |                             |
|                                       | positis references, e.g., Mary late, sumple analysis, reports!                          |                             |

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## 6 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

The available data are considered insufficient to prepare a final HRS score for the New York Pyrotechnic Products Company, Inc. There is no on-site groundwater data available for this site. However, analytical results for the six (6) downgradient wells were well below the NYSDEC Drinking Water Standards. In addition, soil samples have to be analyzed for potential contaminants. It is recommended that limited testing for on-site soils be conducted. Samples should be analyzed for inorganic and organic constituents (see Table 6-1) that are typically used for firework processes to determine if the New York Pyrotechnics Product Company, Inc. is a source of contamination.

Table 6-1: List of Chemicals used by New York Pyrotechnics Product Company, Inc.

| Compound               | Formula                                                                       |
|------------------------|-------------------------------------------------------------------------------|
| Aluminium Powder       | Al                                                                            |
| Antimony Sulfide       | Sb <sub>2</sub> S <sub>3</sub>                                                |
| Barium Chlorate        | BaClO <sub>3</sub>                                                            |
| Barium Nitrate         | $Ba(NO_3)_2$                                                                  |
| Black Copper oxide     | CuO                                                                           |
| Cyrolite               | AlF <sub>6</sub> Na                                                           |
| Dextrin                | C6H12O6.H2O                                                                   |
| Lactose                | <sup>C</sup> 12 <sup>H</sup> 22 <sup>O</sup> 11. <sup>H</sup> 2 <sup>O</sup>  |
| Paris Green            | <sup>C</sup> 4 <sup>H</sup> 6 <sup>As</sup> 6 <sup>Cu</sup> 4 <sup>O</sup> 16 |
| Potassium Chlorate     | кс10 <sub>3</sub>                                                             |
| Potassium Nitrate      | кио                                                                           |
| Potassium per Chlorate | KClO <sub>4</sub>                                                             |
| Red Arsenic            |                                                                               |
| Red Lead               |                                                                               |
| Rosin                  |                                                                               |
| Sodium Oxalate         | $^{\mathrm{Na}}{_{2}}^{\mathrm{C}}{_{2}}^{\mathrm{O}}{_{4}}$                  |
| Sodium Salicylate      | $^{\mathrm{HO.C}}_{6}^{\mathrm{H}}_{4}$ .CooNa                                |
| Stearic Acid           | СН <sub>3</sub> .(СН <sub>2</sub> ) <sub>16</sub> СООН                        |
| Strontium Carbonate    | srco <sub>3</sub>                                                             |
| Strontium Nitrate      | Sr(NO <sub>3</sub> ) <sub>2</sub>                                             |
| Titanium               | Т                                                                             |

APPENDIX A PHOTOGRAPHIC RECORD



1. View south of the site along the access road. Two bunkers in the centre of photo, wooded boundaries of the site in background.



2. Two rusted, deformed drums found in the woods along the southern boundary.



3. View south along the outer eastern boundary of the site. Office in the right hand centre of the photo.



4. Chemical storage bunker.



5. View north along the western boundary of the site. Building No. 12 with mixing/drying tables to the front.



6. View inside building No.13. Centre and foreground are 3, 55 gallon drums. Drum in the foreground of photo is open and full of granular solid.



7. View inside building No. 11. Table and trays used for aerial shell assembly and mixing of chemicals.



8. Inside building No. 11. Assortment of shells stacked on trays against the wall.

APPENDIX B UPDATED NYSDEC INACTIVE HAZARDOUS WASTE
DISPOSAL SITE REGISTRY FORM

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

## INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

| Priority Code:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Site Code: 152116                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of Site: New York                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pyrotechnics Product CompanyRegion: 1                                                                                                                                                                                                                                                                                             |
| Street Address: <u>Associa</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | tion Road                                                                                                                                                                                                                                                                                                                         |
| Town/City: Bellport                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | County: Suffolk                                                                                                                                                                                                                                                                                                                   |
| Name of Current Owner of SI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Felix Grucci, Jr.and Concetta Grucci                                                                                                                                                                                                                                                                                              |
| Address of Current Owner of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Site: One Grucci Lane, Brookhaven, NY 11719                                                                                                                                                                                                                                                                                       |
| ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | n Dump [ X ] Structure [ ] Lagoon                                                                                                                                                                                                                                                                                                 |
| Estimated Size: 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | acre(s)                                                                                                                                                                                                                                                                                                                           |
| Association Road, Be operated from 1926 explosion took place that were stored on chemical containers by Marine Pollution According to New York been buried on the state of the | chnics Product Company is located in ellport, New York. The facility was to 1983. On the 26th of November, 1983, and e at the site and most of the chemicals the site went up with explosion. All and residues were collected and removed Control under contract with NYSDEC. rk Pyrotechnics Company, no chemicals have site.  [ |
| Type and Quantity of Hazardo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ous Wastes Disposed:                                                                                                                                                                                                                                                                                                              |
| Туре                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quantity (Pounds, Drums, Tons, Gallons)                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                   |

Page 1 of 2

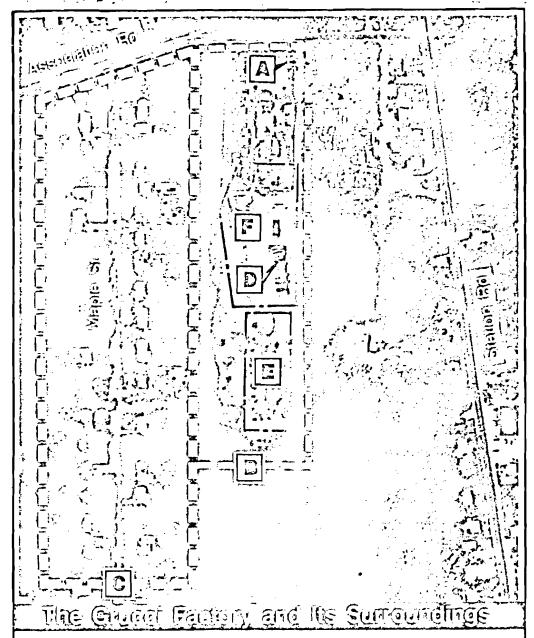
| Time Period Site was Used for Hazardous                       | o                                                        |
|---------------------------------------------------------------|----------------------------------------------------------|
| Owner(s) During Period of Use: Felix                          | Grucci, Jr.                                              |
| Site Operator During Period of Use: $\overline{\mathrm{Fel}}$ | ix Grucci, Jr.                                           |
| Address of Site Operator: One Grucci                          | Lane, Brookhaven, NY 11719                               |
| Analytical Data Available: [ ] Alr<br>[ ] Soil                | [ ] Surface Water [ ] Groundwater [ ] Sediment [X   None |
| Contravention of Standards: [ ] [ ] [                         | Groundwater [   Drinking Water Surface Water     Air     |
| Soll Type: Riverhead Sandy Loam                               | n, 0 to 3 percent                                        |
| Depth to Groundwater Table: Approxim                          | nately 12 feet                                           |
| Legal Action: Type: None                                      | [ ] State [ ] Federal                                    |
| Status:       In Progress                                     |                                                          |
| Remedial Action: [ ] Proposed                                 | ·                                                        |
| (     In Progress                                             | <del>-</del>                                             |
| Nature of Action:                                             | <del></del>                                              |
| Assessment of Environmental Problems:                         |                                                          |
| Unknown.                                                      |                                                          |
| Assessment of Health Problems:                                |                                                          |
| Unknown.                                                      |                                                          |
| Person(s) Completing This Form:                               |                                                          |
| for NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION   | NEW YORK STATE DEPARTMENT OF HEALTH                      |
| Name: Ari Selvakumar                                          | Name:                                                    |
| Iltle: Staff Engineer, YEC, In                                | மு. Title:                                               |
|                                                               |                                                          |
| Name:                                                         | Name:                                                    |

### REFERENCES

- Article in Newsday, 1983, Brookhaven Town photo taken in April, 1982
- 2. Charles J. Voorhis, Division of Environmental Protection, Full Summary and Environmental Analysis of the Grucci Fireworks Explosion, December 8, 1983.
- 3. New York State Department of Environmental Conservation, Memo from Norman H. Nosenchuck, Director, Division of Solid and Hazardous Waste to Commissioner Williams, March 5, 1984.
- 4. Suffolk County Department of Health Services, Report on New York Pyrotechnics, Inc. explosion.
- 5. Letter from David Harris, M.D., M.P.H., Commissioner, Suffolk County Department of Health Services to Tony Apollaro, Assistant to the County Executive, December 22, 1983.
- 6. New York State Department of Environmental Conservation, Attachment to SCDHS Waste Product Survey Sheet, Process Generating Waste by Randy White, Region 1, March 29, 1984.
- 7. Wallace De Laguna, 1963, Geology of Brookhaven National Laboratory and Vicinity, Suffolk County, New York, Geological Survey Bulletin 1156-A. Document Location: US Department of Interior, Albany, New York.
- 8. Suffolk County Department of Health Services, Letter from David Harris, M.D., M.P.H., Commissioner to Alice Amrhein, Assistant Deputy County Executive, December 8, 1983.
- 9. Suffolk County Department of Health Services, Letter from David Harris, M.D., M.P.H., Commissioner to Henrietta Acampora, Supervisor, Town of Brookhaven, February 27, 1986.
- 10. Suffolk County Department of Health Services, Letter from David Harris, M.D., M.P.H., Commissioner to Alice Amrhein, Assistant Deputy County Executive, December 7, 1983.
- 11. Fanning, Phillips and Molnar, Environmental Report on New York Pyrotechnic Products, Inc., February 12, 1986.

## APPENDIX C PHOTOCOPIED REFERENCES

Reference 1



- A Original factory, less than a quarter of an acre, was purchased from Suffolk County in 1930.
- B Current Grucci property, 13-acre plot acquired in 30 transactions between 1930 and 1977.
- C Homes along Maple Ave. Built starting in 1955. Sustained most severe damage of the 165 homes state officials say were affected by blast.
- D Storage trailers, installed sometime after 1973, which were destroyed in the explosions.
- Contract area, magazines for storage of materials used in Army and Bulova contracts.
- F Area of explosions.

Brookhaven Town photo taken in April, 1982

|  |  | Reference | 2 |
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# Full Summary and Environmental Analysis Grucci Fireworks Explosion November 26, 1983 Bellport, N.Y.

## Background

- 1. Grucci fireworks explosion occured on November 26, 1983. The site was almost totally devastated in the explosion and building rubble, vehicles, trailers and their contents are scattered across the site and adjacent properties.
- 2. The burning remains were brought under control by local fire departments following the explosion. S. C. Police Emergency Services Bomb Squad arrived at the site and removed only dangerous explosive material which was transported to a Westhampton Air Force Base and detonated.
- 3. Sunday, November 27, the police bomb squad returned to the site and contained 17 55 gallon drums of star powder. Trenches were dug and all 17 barrels of dangerously explosive material was burned on site by the police bomb squad. No material was buried, no additional material was transported from the site.
- 4. Beginning Monday, November 28 through November 30 additional clean up measures were taken. NYSDEC contracted Marine Pollution Control (Industrial Waste Scavenger) by allocating \$5000.00 from the State Superfund for hazardous materials clean up. Marine Pollution Control and SCDHS contained 20 55 gallon drums of scattered or spilled dry chemicals. Mixed content of the drums is not completely known. Barrels are sealed and remain on site. In addition, salvagable barrels of metal powder were segregated and housed temporarily in Building 1 on site. Oxidizers were segregated and put in Building 11. No hazardous materials were removed from the site.
- 5. The site is not considered stable. Initial clean up was effective; however, the following potentially hazardous areas are left unfinished.
- A. Materials in drums on site are in temporary storage. Barrels are not completely isolated from the weather. Content of some barrels is not known. A potential for further reaction exists.
- B. A trailer at the south end of the size was used for chemical clorage. The explosion scattered the contents of the trailer on the ground. Most residue appears to be oxidized and is deposited in the vicinity of the trailer.
- C. "Live" flares and fireworks have been observed scattered across the property. Attempts have been made to gather all unexploded materials; however, not all have been located.
- 6. Dry chemicals used in manufacture of explosive devices include metals, metal salts, oxidizers and arsenic containing compounds. If allowed to leach into the groundwater, water quality impacts may occur.
- 7. Additional measures have taken place to mitigate potential environmental impacts.—
  They are as follows:
- A. The chemical trailer and vicinity were partially covered on December 2nd and completely covered on December 6th, following a flare up of unreacted material on December 5th. This operation was completed by Grucci factory personnel and Town personnel using Town provided sheets of PVC landfill liner. Sheets measure  $50 \times 100$  feet and  $30 \times 50$  feet.
- B. Grucci factory personnel pruned trees and picked up soil contaminated with copper acetate arsenic on the mid-west side of the site. Collected debris is in two cardboard barrels on site.

- C. SCDHS collected 6 private well drinking water samples from houses down gradient of the site on Thursday, November 1. Partial chemical analysis has found one sample to be high in Nitrate-Nitrogen. Other parameters are within drinking water standards. Analysis of heavy metals and volatile organics is being performed by the H2M laboratory and results are expected on December 15
- D. Fifteen soils samples were collected by SCDHS on November 28 to determine if the material is a hazardous waste by Federal, State and/or County Definition. Full results are not available as of this date, however, SCDHS will provide available results at the next informational meeting.

### Powdered Chemical Inventory

The following chemicals were contained on site:

\*Barium Chlorate

\*Barium Nitrate
Barium Sulfate

\*Potassium Chlorate

\*Potassium Per Chlorate
Potassium Sulfate
Sodium Nitrate
Strontium Carbonate
Strontium Nitrate
Calcium Carbonate and
Magnesium
Ammonium Perchlorate

\*Flaked Aluminum Powder
Magnesium Powder
Zinc Powder
Fumed Silica
\*Sulfur
Paris Green (copper, acetate, arsenic)
\*Red Gum Glue
\*Dextrom
\*Charcoal
\*Sawdust
\*Rice Husks

\*Chemicals contained in trailer inventory

#### Potential Environmental Impacts

- 1. Potential for groundwater contamination arises from the possibility of bound inorganic chemicals dissociating and leaching into the groundwater. One of two fates may take place.
- A. Metals which were oxidized during explosion and fire. If this is the case there is a strong chance metal residue will be attenuated in the soil. Little or no groundwater impact is expected to occur.
- B. Metal salts not previously reacted may dissociate upon contact with water. Dissolved inorganic chemicals may enter groundwater.
- 2. It is not known how much material was oxidized during the blast.
- The following groundwater and drinking water standards apply to inorganic chemicals contained on site.

|          | Ground<br>Water (Mg/L) | Drinking Water (Mg/L) |
|----------|------------------------|-----------------------|
| Aluminum | 2.0                    |                       |
| Arsenic  | 0.05                   | 0.05                  |
| Barium   | 2.0                    | 1.0                   |
| Chloride | 500.0                  | 250.0                 |
| Copper   | 1.0                    | 1.0                   |
| Nitrate  | 20.0                   | 10.0                  |

| -       | Ground Water (Mg/L) | Drinking<br><u>Water (Mg/L)</u> |
|---------|---------------------|---------------------------------|
| Sulfate | 500.0               | 250.0                           |
| Zinc    | 5.0                 | 5.0                             |

- 4. Public Safety Impacts are best addressed through site security until clean-up is accomplished.
- 5. Air Quality Impacts are minimal due to natural dispersion

#### Site Characteristics

- ---Groundwater flow is in a south-southeasterly direction. If contamination is released the areas north and west of the site would not be impacted.
- ---Groundwater velocity in this area is estimated to be 1.5 feet/day. If contamination reaches groundwater, it would be expected to reach the intersection of Station Road and Head of the Neck Road in 2.7 years.
- ---Downgradient of the site public water is available on the following major roads: Station Road, Railroad Ave., South Country Road; and on all or portions of connecting roads.
- ---Suffolk County Water Authority maintains the Head of the Neck Road well field 1800 feet downgradient of the site. Depth of production wells has not yet been determined.
- ---Groundwater quality in the area is generally good with the exception of 2 nitrate, 1 hydrocarbon and 3 organic samples in excess of drinking water standards. These incidents are most likely due to local household practices.

#### Recommendations

- 1. The site should be cleaned up as soon as possible to avoid additional flare-ups and possible groundwater contamination.
- A. The 20 55 gallon drums should be disposed of through a NYSDEC certified industrial Waste Scavenger to a secure hazardous waste landfill.
- B. The segregated metal powders and oxidizers should be removed from the site and either utilized by the Grucci Fireworks Display Co. or disposed of as in A above.
- C. The residue from the exploded trailer should be contained. After careful removal of steel debris all chemicals and contaminated soil should be barrelled. A minimum area of 20 x 40 feet x l foot deep should be excavated from this area. (Volume 300 ft.<sup>3</sup>) Additional soil samples should be collected following removal to determine if further excavation is warranted. The initial 5 soil samples are expected to find that material is hazardous by County definition and must be disposed of as in A above.
- D. Following removal of scrap metal the entire site should be scraped of an inch of soil to remove trace chemicals, debris and unexploded devices. If approved by NYSDEC this material should go to Brookhaven Landfill.
- 2. Clean-up should be handled by NYSDEC using the \$15,000 additional Superfund money allocated for this project, or Grucci Fireworks, whichever takes place sooner. Town intervention does not appear to be required as NYSDEC is already soliciting bids for clean up.

3. SCDHS should continue to monitor downgradient drinking water wells three times a year.

DIVISION OF ENVIRONMENTAL PROTECTION

December 8, 1983

Thomas W. Cramer Director

Charles J. Voorhis Environmental Analyst Reference 3



## New York State Department of Environmental Conservation

#### MEMORANDUM

TO: FROM: SUBJECT: Commissioner Williams, THRU: Darryl Banks, Deputy Commissioner
Norman H. Nosenchuck, Director, Division of Solid and Hazardous Waste
Conceptual Approval for Services to Transport and Dispose of Contaminated
Soil at the New York Pyrotechnic Products Site (Grucci) in Bellport, Long Island

DATE:

MAR 0 : 1001

Summary:

The services of a qualified disposal contractor will be required to transport and dispose of approximately thirty (30) cubic yards of contaminated soil at the site of the New York Pyrotechnic Products, Inc. The Division of Solid and Hazardous Waste proposes to undertake this remedial action to prevent any migration of the contaminants from the site. Funds will be made available through the State Superfund.

Suran H. Sometouch

Background:

On Saturday, November 26, 1983, an explosion occurred at the site, commonly known as the Grucci Fireworks Company. The firm, owned and operated by the Grucci family is a world-renowned fireworks manufacturer. The explosion killed two workers and leveled several buildings. Several containers of various hazardous chemicals were ruptured as a result of the explosion. Commissioner Williams approved the use of State Superfund by telephone conversation with Regional Director, Harold Berger, on November 28, 1983. The services of a disposal firm were procured by the NYSDEC Region 1 Office to collect, package and transport for disposal all of the ruptured containers of hazardous wastes on the site. The work was completed on Wednesday, November 30, 1983. Twenty-one (21) drums of spilled hazardous waste chemicals were collected and disposed.

Discussion:

Approximately thirty (30) cubic yards of soil contaminated with various arsenic and barium compounds are being stored on the site. The contaminants in this soil are the residue left from the spill caused by the November 26 explosion. Laboratory analysis shows arsenic and barium concentrations up to 480 ppm and 56,000 ppm respectively. Since contaminants in this soil are spill residue that fail the EP toxicity test, the entire amount of material is defined as a hazardous waste under 6 NYCRR Part 366.1 (d) (4) and must be disposed of as such. An attempt was made to accomplish this additional cleanup through purchase order procurement procedures. Bids received exceeded the \$5,000 limit and dictate the use of formal advertisement and a short form contract.

Cost:

The cost for this work is estimated at \$7,500.

Funding

Source: Funding will be provided through the State Superfund.

Due Date:

Conceptual approval is required as soon as possible so that contractor services may be obtained before these contaminants cause any harm to local residents or the environment.

Alternative:

The only other viable alternative is to have the Grucci family procure contractor services themselves. NYSDEC Region 1 has been unsuccessful in attempts to get the owner to perform the cleanup. Cost recovery action must be initiated by Department legal staff at the completion of the work.

Attachment

cc: L. Marsh

D. Banks

R. Lynch

S. Reul

J. Greenthal

J. Heil - Region 1

Reference 4

#### SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES

## REPORT ON NEW YORK PYROTECHNICS, INC. (GRUCCI PROPERTY) BELLPORT, NEW YORK

Employees from the Health Services Department were on the scene of the Grucci explosion every day from the day of the incident until last Friday, December 2, 1983, working with the Suffolk County Police Emergency Services Squad, New York State Department of Environmental Conservation, the Town of Brookhaven environmental and fire personnel and Marine Pollution Control. Our participation will continue this week as the cleanup proceeds.

The problems at the site involving chemicals fall into three phases:

1. A building near the front (north) of the property, which was only partially destroyed by the blast and escaped the fire, contained a very large quantity (several thousand pounds) of a variety of dry chemicals including 17 drums of explosive flash powders, a variety of powdered metals and a variety of oxidizers. Included were some highly toxic materials such as Paris green, white and red arsenic, red lead, a mercury compound, and some barium compounds.

These materials were carefully sorted by Emergency Services and the explosives removed and destroyed. Then the oxidizers were separated from the metals and other materials. All unidentified and damaged materials were segregated and repackaged by Marine Pollution Control for removal to Buffalo for burial. The good products were saved for the Gruccis.

2. Two drums of Paris green were found in the woods on the west side of the property where they had been blown by the explosion. They had split and spilled their contents on the ground and in the woods. The residues were shoveled up by Emergency Services and Health Services people and put in drums for removal by Marine Pollution Control.

The total volume from items 1 and 2 to be removed by Marine Pollution Control is 20 drums for which the state has agreed to pay \$5,000 from the State Super Fund. This exhausts the state funds available without following the extensive bidding and contractor selection process necessary for large contracts.

3. Toward the rear of the property a series of truck trailers were parked side-by-side for storage. Some contained explosives and flammable material. These were all blown apart and completely burned by an obviously intense fire. One of the trailers was found to have contained a large number of drums of chemicals including some Paris Green, barium nitrate and barium chlorate. The two drums of Paris green described in item 2 were thought to have come from here.

The chemicals from this trailer are all burned and melted together in a concentrated mass in the ashes and on the ground under the wreckage of the trailer. They were washed down by the fire fighters and one rainstorm before discovery, but a heavy plastic membrane was obtained from the town to cover the site before a second rainstorm arrived.

The site must first be cleared of steel and then the area excavated to remove the contaminated residue and soil for removal to a chemical landfill.

The work that must be done yet on the site involves the removal for disposal of the 20 drums consigned to Marine Pollution Control, removal of steel from the trailer area, excavation of the trailer area, removal of the excavated soil by an industrial scavenger, and securing or removing from the site by the Gruccis the good chemicals which are presently improperly stored there.

Six representative homes served by private wells downgradient of the Grucci site have been selected as monitoring locations and sampled to obtain background water quality data. It will take several months before any impact on the wells could occur due to the release of chemicals during the explosions and subsequent washdown of area by the fire departments. Estimates of the time it will take for any potential contamination to reach the selected private wells will be calculated and a monitoring schedule prepared. The monitoring sites will be sampled on a periodic basis to determine if any negative impact on the groundwater has taken place.

To complete the job, the rubble and ash from the general site, which will be scraped up when site clearing begins, should be removed to the Brookhaven landfill rather than buried on-site to remove any groundwater threat which may exist from rainwater leaching through the contaminated ash.

The cost to the Health Services Department in responding to this emergency so far has involved manhours and sample analyses.

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#### **COUNTY OF SUFFOLK**



Granic

## PETER F. COHALAN SUFFOLK COUNTY EXECUTIVE

**DEPARTMENT OF HEALTH SERVICES** 

DAVID HARRIS, M.D., M.P.H. COMMISSIONER

December 22, 1983

Mr. Tony Apollaro
Assistant to the County Executive
H. Lee Dennison Building
Veterans Memorial Highway
Hauppauge, New York 11788

Dear Tony:

This is to inform you of the status of the cleanup operations at the Grucci property on Association Road in Bellport.

According to Mr. Felix Grucci, Jr., all remaining fireworks and explosive materials have been removed from the county. All other usable chemicals which survived the fire and explosion have been removed by the Gruccis to their chemical supply company in New Jersey, except for seven containers of magnesium powder which are presently stored in a truck on the Grucci site. These containers will be removed by the Gruccis when a user can be found.

All other damaged or unidentifiable chemicals were packaged by Marine Pollution Control under contract with NYSDEC and are presently stored in 20 drums on the scene awaiting removal under the direction of NYSDEC to a secure industrial landfill in upstate New York. We are told by NYSDEC Regional Office that this removal may not occur until after Christmas due to the difficulty in scheduling material into the landfill.

All scrap metal was removed from the site by a scrap dealer. All the rubble from the site was scraped up and trucked to the Bröokhaven Town lined landfill. The site is now level and relatively clear, except for the few structures on the site.

Toward the rear of the property a trailer truck body had been used as a chemical storage shed. During the explosion and fire, the trailer was destroyed and the chemicals released to the ground. The soil in the area has been excavated by the town, placed on a plastic sheet and covered with a section of landfill liner to exclude precipitation. This contaminated soil should be removed from the county as hazardous waste

Mr. Tony Apollaro Page 2 December 22, 1983

material. The Gruccis have elected not to arrange for this to be done and are relying on NYSDEC to complete the work. NYSDEC claims to have the money available, and will remove the material, but it will be a long process. They are just beginning now to gather bids.

Neither the drums nor the soil present a threat to the groundwater in their present condition. However, until they are removed, the cleanup of the Grucci site cannot be considered complete.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

David Harris, M.D., M.P.H.

Commissioner

DH/1st

cc: Hon. Peter F. Cohalan

Mr. John C. Gallagher

Mr. Howard C. DeMartini

Mr. Frank R. Jones

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## ATTACHMENT TO SCA WASTE PRODUCT SURVEY SHEET PROCESS GENERATING WASTE

By:
Randv White
NYSDEC
Region I
Stony Brook, New York

During an explosion at a pyrotechnics factory, approximately five 55 gallon steel drums of barium and arsenic containing compounds were spilled on top of a 40' X 40' area of ground. The contents of 'each drum (unknown quantity) and the drums themselves were incinerated during the explosion leaving small piles of ash residue. Samples were taken from each of these ash residue piles by the Suffolk County Department of Health Services with the results of analysis indicating high concentrations of As and Ba (please review attached Suffolk County Health Department lab sheets). Unfortunately, metal scavengers worked over the site spreading the ash residues over the 40' X 40' area thereby preventing these residues to be scraped up separately. The environmental agencies involved decided as a measure of precaution to remove 6" of soil from the 40' X 40' area. One sample was taken from the excavated soil by the New York State Department of Environmental Conservation indicating very low concentrations of Ba and As (please review attached H<sub>2</sub>M lab sheet).

Basically, what we have is 30 cubic yards of relatively uncontaminated soil mixed with approximately 50 pounds of ash residues containing significant concentration of As and Ba.

RW:dm 3/29/84 **H2M** 

### **Environmental Engineers & Scientists**

HOLZMACHER, McLENDON and MURRELL, P.C. 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES ● WATER SUPPLY & TREATMENT ● SEWERAGE & TREATMENT ● ECOLOGICAL & IMPACT STUDIES MODEL STUDIES ● PILOT PLANT STUDIES ● WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

## LABORATORY REPORT

LAB NO. 359844

PROJECT RO. 2C

COLLECTED BY RW 99

DATE RECEIVED - 12/22/83

JAN 23 1084 FEB 6 - T

DATE REPORTED 1/13/8/

BUREAU OF WATER RESERVED WASTE MANAGE MINISTER OF PURE WATERS DEC PROPERTY.

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONV.

50 WOLF ROAD

ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANLOUS DATE COLLECTED - 12/21/83

DEC ID \*R-183-001-01 GRAB SAMPLE SOIL SAMPLE

PARAM-

FIER RESULT

ARSENIC \_\_\_\_18.0 #

BARIUM 0.60

LEAD 0.30

COPPER 0.02

ZINC \_ 0.29

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY \$ (UG/L) OR % (PERCENT) AND

T.COLI BACT. % FECAL COLI (MPN/100ML)

COLOR, ODOR, TURBIDITY & PH (UNITS)

APC & FECAL STREP (COUNTS/KL)

SPEC.COND. (UMHOS)

SETT. SOLIDS (ML/L)

S. C. MCLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

Reference 7

# STATE OF NEW YORK DEPARTMENT OF CONSERVATION WATER POWER AND CONTROL COMMISSION

# MAPPING OF GEOLOGIC FORMATIONS AND AQUIFERS OF LONG ISLAND, NEW YORK

Prepared by the Water Power and Control Commission with the Cooperation of the U. S. Geological Survey

Material Compiled for the Commission

by

RUSSELL SUTER

Consultant

Geological Data Prepared

by

美海

م بالراد و ا

WALLACE DE LAGUNA

and

NATHANIEL M. PERLMUTTER

U. S. Geological Survey



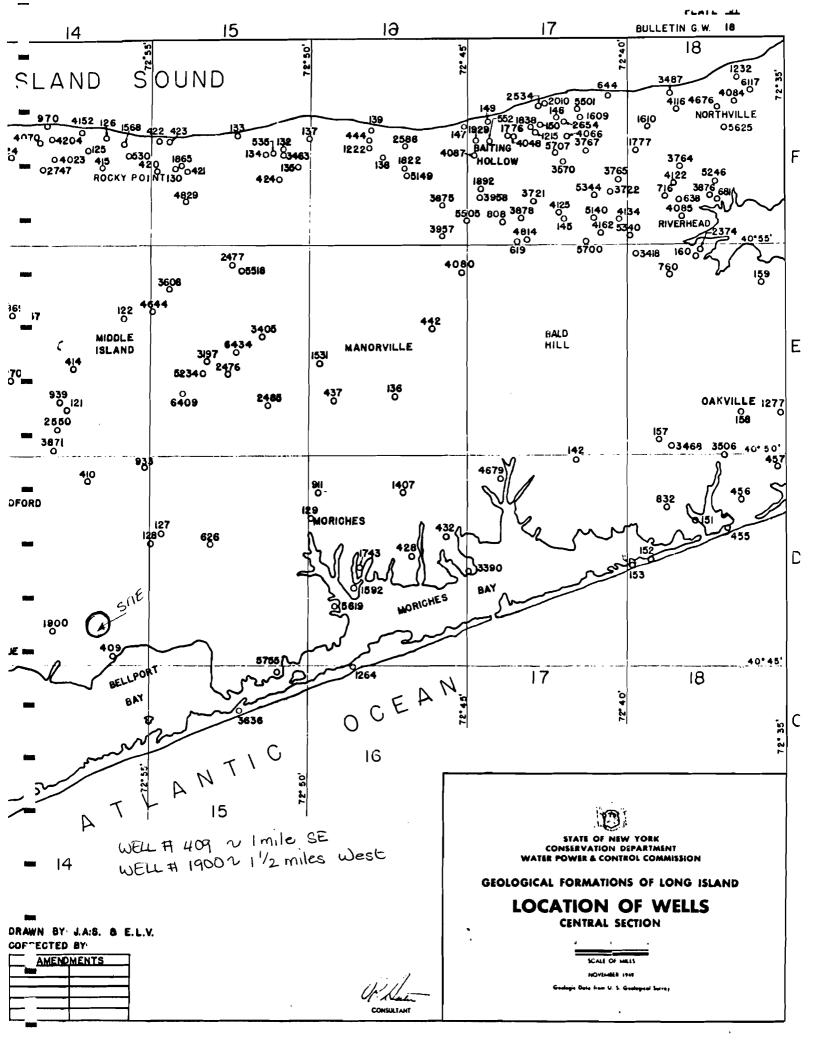
BULLETIN GW-18 ALBANY, N. Y. 1949

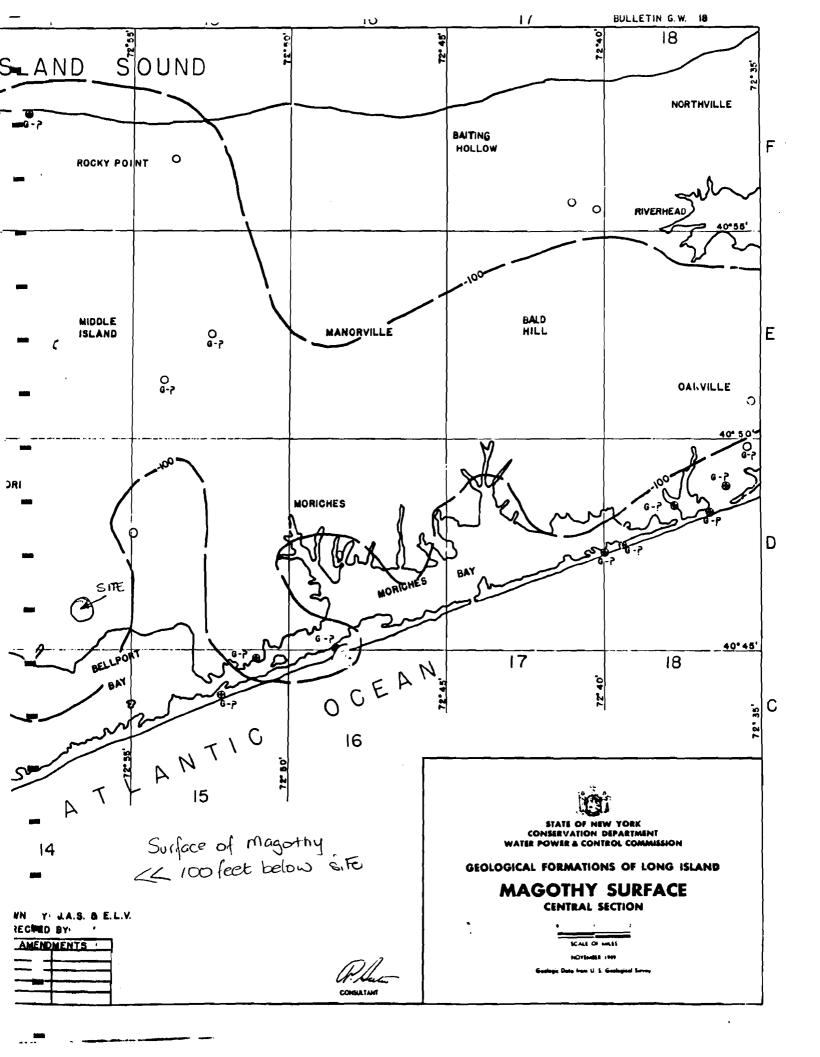
## TENTATIVE GEOLOGIC CORRELATIONS OF WELL LOGS IN SUFFOLK COUNTY, LONG ISLAND, N. Y.

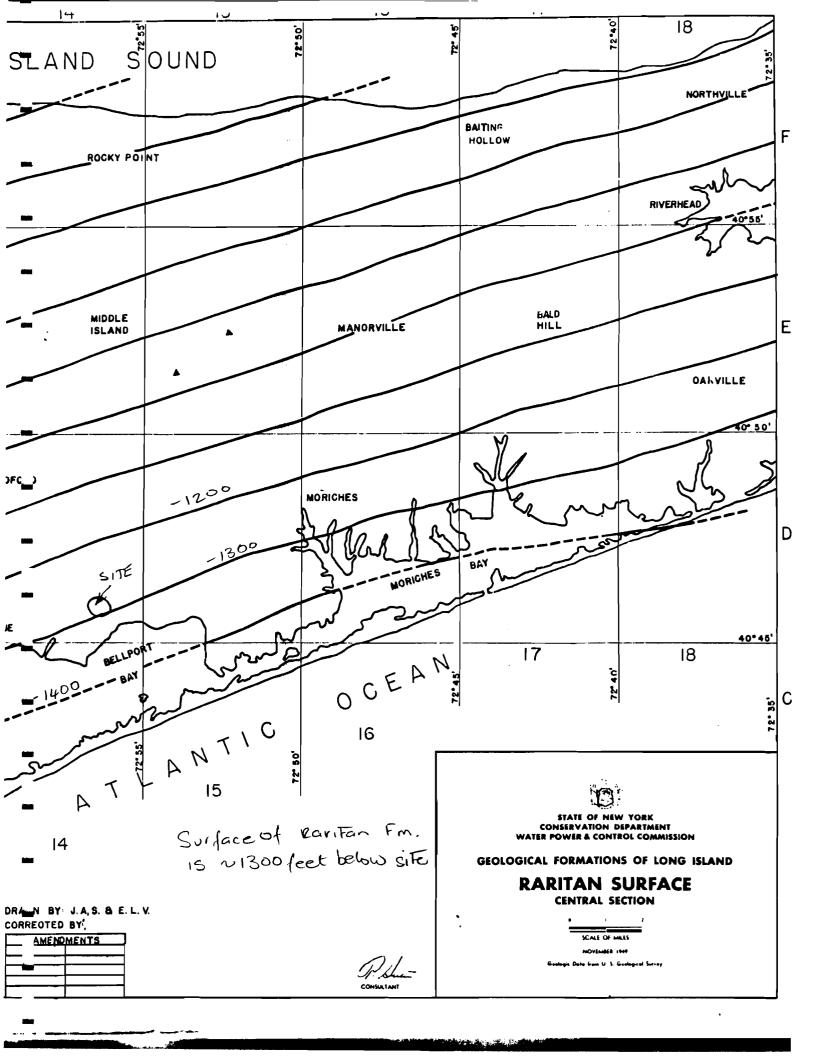
| Well<br>Number | Map<br>Coordinates | Remarks                         | Total<br>Depth | Recent and<br>Upper<br>Pleistocene<br>Deposits | Gardiners<br>Clay | Jameco<br>Gravel | Magothy (?)<br>Formation | Raritan<br>Clay<br>Member | Formation<br>Lloyd Sand<br>Member | Bedrock<br>Weathered | Presh | Reliability of<br>Correlation | Sen<br>Sett | een<br>ing  | Aquifer<br>Developed | Well<br>Number |
|----------------|--------------------|---------------------------------|----------------|------------------------------------------------|-------------------|------------------|--------------------------|---------------------------|-----------------------------------|----------------------|-------|-------------------------------|-------------|-------------|----------------------|----------------|
| 1790           | F-18*              | S 4122, same location.          | 84             | + 40 44                                        |                   | <del></del>      |                          |                           |                                   |                      | •     | Good                          | - 24        | - <u>44</u> | UP                   | 1790           |
| 1793           | D-9                |                                 | 273            | +320 +132                                      |                   |                  | +182 + 47                |                           |                                   |                      |       | Good                          | + 50        | + 47        | M                    | 1793           |
| 1801           | D-9                |                                 | 175            | +200<br>+148                                   |                   |                  | +148 + 96                |                           |                                   |                      |       | Good                          | + 23        | + 27        | M '                  | 1801           |
| 1818           | G-19               |                                 | 118            | + 40 _ 78                                      |                   |                  |                          |                           |                                   |                      |       | Pair                          | - 57        | - 78        | UP                   | 1818           |
| 1820           | E-18               |                                 | 125            | +160<br>+ <b>35</b>                            |                   |                  |                          |                           |                                   |                      |       | Good                          | + 31        | + 27        | UP                   | 1820           |
| 1822           | F-16               |                                 | 136            | +120<br>- 16                                   |                   |                  |                          |                           |                                   |                      |       | Good                          | - 7         | _ 27        | , UP                 | 1822           |
| 1834           | B-9                |                                 | 304            | + 10 - 921                                     | 1                 |                  | - 92 7<br>-284           |                           |                                   |                      |       | Poor                          | - 279       | - 290       | м                    | 1834           |
| 1838           | F-17               | S 527, same map<br>location.    | 133            | +100 - 23                                      |                   |                  |                          |                           |                                   |                      |       | Good                          | - 18        | - 83        | UP                   | 1836           |
| 1842           | E-9                |                                 | 445            | +200<br>+1477                                  |                   |                  | +147 †<br>- <b>245</b>   |                           |                                   |                      |       | Fair                          | - 225       | - 245       | M<br>                | 1842           |
| 1853           | D-9                |                                 | 48             | +190<br>+ 78                                   |                   |                  |                          |                           |                                   |                      |       | Good                          | - 73        | - 79        | UP                   | 1853           |
| 1865           | F-15               |                                 | 167            | +140 - 37                                      |                   |                  |                          |                           |                                   |                      | ,     | Good                          | - 11        | - 26        | UP                   | 196            |
| 1880           | C-10               |                                 | 40             | + 10 _ 30                                      |                   |                  | <del></del>              | <del></del>               |                                   | ·                    |       | Good                          | - 20        | - 30        | UP                   | 1880           |
| 1888           | E-8*               | Near location of<br>S 2532.     | 54             | + 50 _ 4                                       |                   | <del></del> _    |                          |                           |                                   |                      |       | Good                          | + 7         | + 4         | UP<br>               | 188            |
| 1892           |                    | ·                               | 98             | + 90 8                                         |                   |                  |                          |                           |                                   |                      |       | Good                          | + 5         | - 10        | UP                   | 189            |
| F 1900         | D-14               |                                 | 61             | + 30 - 31                                      |                   |                  |                          |                           | <u> </u>                          |                      |       | Good                          | - 16        | - 81        | UP                   | 190            |
| 1929           | F-17               |                                 | 60             | +105 _ 50                                      |                   |                  |                          |                           |                                   |                      |       | Good                          | 30          | - 50        | UP                   | 192            |
| 1950           | E-9*               | 8 4099, mme location.           | 168            | +200<br>+ 33                                   |                   |                  |                          |                           |                                   |                      |       | Good                          | + 37        | + 32        | UP                   | 195            |
| 1951           | E-9                |                                 | 488            | +220<br>+114?                                  |                   |                  | +114 7<br>- 208          |                           |                                   |                      |       | Fair                          | - 248       | - 268       |                      | 195            |
| 1983           | F-25*              | S 1399, same location.          | 39             | + 20<br>- 19                                   |                   |                  |                          |                           |                                   |                      |       | Good                          | - 3         | - 19        | UP                   | 198            |
| 1994           | C-9*               | Near map location of<br>8 3015. | 85             | + 85                                           |                   |                  |                          |                           |                                   |                      |       | Fair                          | + 13        | 0           | UP                   | 199            |
| 2000           | C-9                |                                 | 30             | + 10 _ 20                                      |                   |                  |                          |                           | . ——————                          |                      |       | Good                          | - 10        | - 20        | UP                   | 200            |

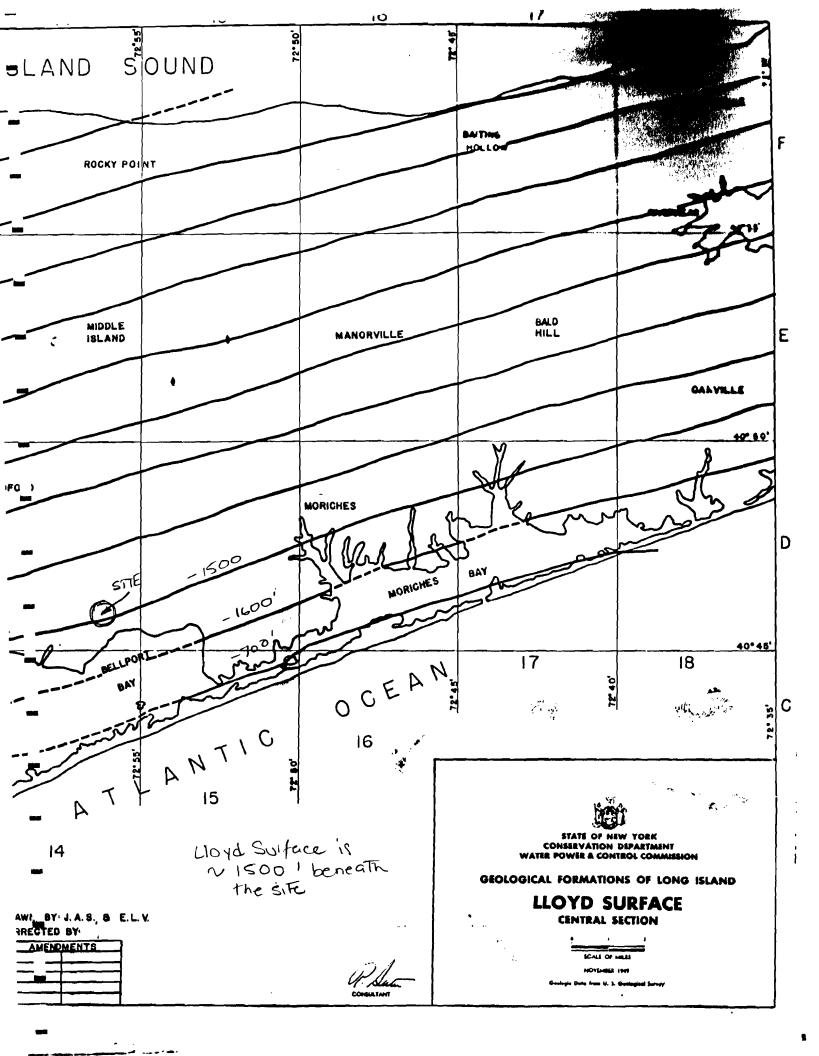
|     |     |              | ەر.                                                                 | سيديس       | The state of the s |                 |          | -            |             |
|-----|-----|--------------|---------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|--------------|-------------|
|     |     | Þip          | ¥ 770                                                               | 80          | + 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good No         | o record | UP           | <b>3</b> 76 |
|     | 378 | D-13         | V 782.                                                              | 90          | +105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good N          | o record | UP           | 378         |
|     | 381 | E-18         | V 785.                                                              | 110         | +145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good No         | record   | UP           | 281         |
|     | 388 | E-13         | V 792.                                                              | 53          | +130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good No         | record   | UP           | 288         |
| ,   | 391 | E-18         | V 795.                                                              | 70          | + 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Fair No         | o record | UP           | 391         |
|     |     |              |                                                                     | 85          | + 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good No         | o record | UP           | 393         |
|     | 393 | F-18         | V 796.                                                              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Good No         | o record | UP           | 294         |
|     | 394 | F-18         | V 798.                                                              | 95          | +160+ 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | o record | MI           | 307         |
|     | 897 | F-18         | V 801.                                                              | 95          | + 50 + 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>'- 46</u>    | o record | UP           | 400         |
|     | 400 | <b>7</b> -13 | ¥ 804.                                                              | 75          | + 10 - 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |          |              |             |
|     | 407 | F-18         | V 811, Correlation<br>based on examination<br>of samples.           | <b>8</b> 70 | +200 - 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ~170            | o record | M<br>        | 407         |
|     | 408 | <b>F-18</b>  | V 812.                                                              | 95          | +100 + 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | o record | UP<br>       | 408         |
| ¥   | 409 | D-14         | V 813.                                                              | 45          | + 10 _ 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | o record | UP           | 409         |
| •   | 410 | D-14         | V 814.                                                              | 68          | +110 + 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Good No         | o record | UP           | 410         |
| 12  | 414 | E-14         | V 818.                                                              | 39          | +100 + 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Good No         | o record | UP           | 414         |
| = . | 415 | <b>P-14</b>  | V 819.                                                              | 128         | +115 - 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Good N          | o record | UP           | 415         |
| •   | 420 | F-15         | V 824.                                                              | 123         | +140 + 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Good No         | record   | UP           | 420         |
|     | 421 | F-15         | V 825.                                                              | 847         | +185 - 88?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 88 † Poor No  | o record | No<br>record | 421         |
| ,   | 422 | F-15         | V 826.                                                              | 94          | + 20 - 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Poor N          | o record | UP           | 422         |
|     | 423 | F-15         | V 827.                                                              | 47          | + 20 _ 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Good No         | o record | UP           | 423         |
|     | 424 | F-15         | V 828.                                                              | 110         | +110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good N          | o record | UP           | 424         |
|     | 428 | D-16         | у 832.                                                              | 84.         | + 15 _ 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Good No         | o record | UP           | 428         |
|     | 432 | D-16         | V 836.                                                              | 83          | + 20 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Good No         | o record | UP           | 432         |
|     | 437 | E-16         | V 841.                                                              | 36          | + 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good No         | o record | UP           | 437         |
| •   | 442 | E-16         | V 846.                                                              | 42          | + 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good N          | o record | UP           | 442         |
|     |     |              |                                                                     |             | + 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Fair N          | o recerd | UP           | 444         |
|     | 444 | F-16         | V 848.                                                              |             | + ••                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ? -175? Poor N  | o record | м            | 455         |
|     | 455 | D-18         | V 858.                                                              | <b>22</b> 5 | + 5 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - 2200          |          | <del>-</del> |             |
|     | 456 | D-18         | V 859, Correlation<br>based in part on exami-<br>nation of samples. | 247         | + 10 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ? -146 ? Poor N | o record | м            | 456         |

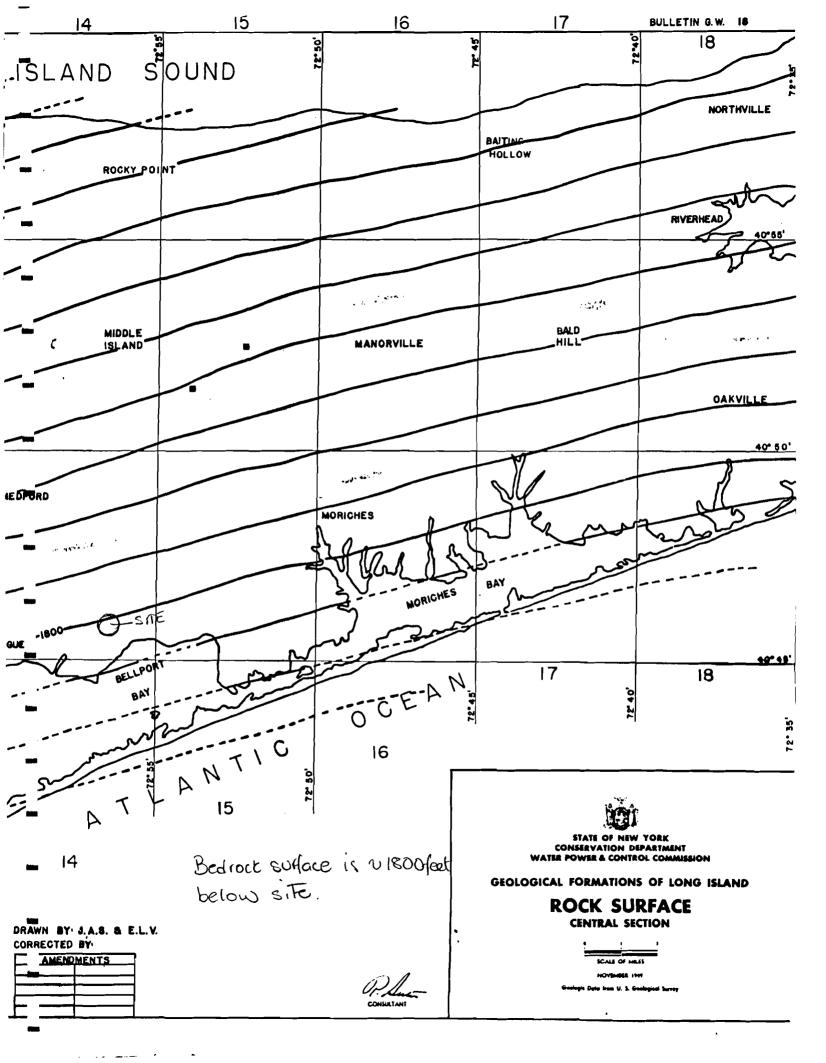
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| • | Reference 8 |  |
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#### COUNTY OF SUFFOLK



## PETER F. COHALAN SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS, M.D., M.P.H. COMMISSIONER

December 8, 1983

Ms. Alice Amrhein Assistant Deputy County Executive H. Lee Dennison Building Hauppauge, NY

Dear Alice:

As a follow up to our December 7 letter we have received some of the laboratory results of soil and puddle samples collected from the Grucci site. The samples confirmed that materials at the site contained arsenic, aluminum, barium, magnesium, zinc, lead, copper and nickel. These materials have been removed or are in the process of being removed.

We also received samples from our laboratory of six private wells downstream from the site. Laboratory analysis for the usual constituents of water indicate that the samples from the wells show levels within acceptable limits. Special testing for certain heavy metals and synthetic organics in these wells are being analyzed by a private laboratory. The results of these tests are not expected for at least a week. We will continue our monitoring of these private wells and if there are any unusual results, I will keep you informed.

I hope this additional information will be of use to you.

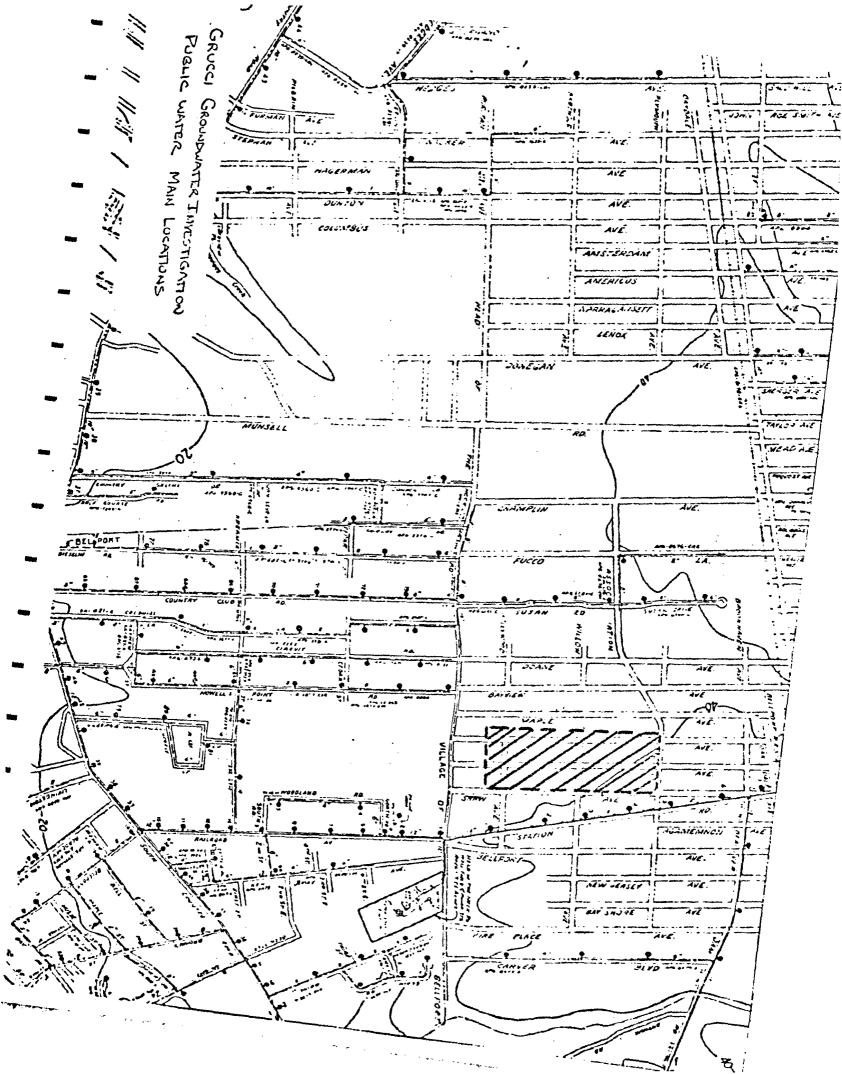
Sincerely,

David Harris, MD, MPH

Commissioner

DH: vm

225 RABRO DRIVE EAST HAUPPAUGE, N.Y. 11708 (516) 348-2917



| •                                                                                                                                                                                                                  |             |         |                                                                                                                                                                                                                            |      |            |       |                | n_i                                               | U              | $\sim$         |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-------|----------------|---------------------------------------------------|----------------|----------------|-------------|
|                                                                                                                                                                                                                    | 3629        |         |                                                                                                                                                                                                                            |      |            |       | D-             | DEC to Reserved in Lab                            | •              |                | ,,,         |
| Lab No. 3-ID-1                                                                                                                                                                                                     | 12-2        |         |                                                                                                                                                                                                                            |      |            |       | Da             | te Received in Lab<br>Public Water                |                |                |             |
| Date:                                                                                                                                                                                                              | 713         |         |                                                                                                                                                                                                                            |      |            |       |                | Private Water<br>Other                            |                |                |             |
| Time:                                                                                                                                                                                                              |             |         |                                                                                                                                                                                                                            |      |            |       |                | Other<br>Date Completed                           |                |                | _           |
| (Name not                                                                                                                                                                                                          | initials)   |         |                                                                                                                                                                                                                            |      |            |       |                | Examined By                                       |                |                |             |
|                                                                                                                                                                                                                    | SU          |         | COUNTY DEPARTME<br>PUBLIC HEALTH L<br>CHEMICAL EXAMINA                                                                                                                                                                     | .ABO | RAT        | ORY   |                | RVICES                                            |                |                |             |
| TIC                                                                                                                                                                                                                | C+RUCC      | ı kıcı  | 0.47 ( (                                                                                                                                                                                                                   |      | Ć          | Owner | or             |                                                   |                |                |             |
|                                                                                                                                                                                                                    |             |         | PLAY (0, 1~C                                                                                                                                                                                                               |      |            |       |                |                                                   | _              |                | _           |
| Location ASSO                                                                                                                                                                                                      | C12-762     | RD      | BELL FORT, IX                                                                                                                                                                                                              |      | _          |       |                | •                                                 |                |                | _           |
| Point of Collection/                                                                                                                                                                                               | 4REA-       | f D6    | STROYED TRAIL                                                                                                                                                                                                              | .ER  | <u>ی ر</u> | 10.1  | ساسرا          | (HENKAL)~4                                        | ω'.            | <u> ک</u>      | £           |
| Remarks:                                                                                                                                                                                                           | car ass     | SOCIAT  | 70~ RD                                                                                                                                                                                                                     |      |            |       |                | ••                                                |                |                |             |
| Venigik?:                                                                                                                                                                                                          |             |         |                                                                                                                                                                                                                            |      |            |       |                |                                                   |                |                |             |
|                                                                                                                                                                                                                    |             |         |                                                                                                                                                                                                                            |      |            |       |                |                                                   |                |                |             |
|                                                                                                                                                                                                                    |             |         |                                                                                                                                                                                                                            |      |            |       | :              |                                                   |                |                |             |
|                                                                                                                                                                                                                    |             | D       | or Litor                                                                                                                                                                                                                   |      |            |       |                |                                                   |                |                |             |
| (1) Results Reporte                                                                                                                                                                                                | ed as Micro | grams P | er Liter.                                                                                                                                                                                                                  |      |            |       |                | ζ.                                                |                |                |             |
| (1) Results Reporte                                                                                                                                                                                                | ed as Micro | grams P | er Liter.                                                                                                                                                                                                                  |      |            |       |                |                                                   | _              |                | _           |
| (1) Results Reporte                                                                                                                                                                                                | ed as Micro | grams P | Complete [                                                                                                                                                                                                                 |      | -          |       |                | Resample 🗆 💥                                      |                | w <sup>c</sup> | =           |
| <u> </u>                                                                                                                                                                                                           | ed as Micro | grams P |                                                                                                                                                                                                                            | т т  |            |       | T×             | Resample  Barium (aug.// Ba) Mo/c                 | <del>- 1</del> | _,v°           | =<br>,<br>, |
| Partial  Free Ammonia (mg/l N) Nitrites +                                                                                                                                                                          | ed as Micro | grams P | Complete [                                                                                                                                                                                                                 |      |            |       | ×              | Resample Barium (ass/4 Ba) Ma/g Total Hyd P(mg/l) | <del>- 1</del> | عربي.          | -<br>,      |
| Partial 🗆                                                                                                                                                                                                          | ed as Micro | grams P | Complete [<br>T.Hardness (mg/l CaCO <sub>3</sub> )                                                                                                                                                                         | 1    |            |       | ×              | Barium (aug/l Ba) Mo/g Total Hyd P(mg/l)          | <del>- 1</del> |                | 1           |
| Partial  Free Ammonia (mg/l N)  Nitrites +  Nitrates (mg/l N)  MBAS (mg/l)                                                                                                                                         | ed as Micro | grams P | Complete [ T.Hardness (mg/l CaCO <sub>3</sub> ) T. Alkalinity (mg/l CaCO <sub>3</sub>                                                                                                                                      | 1    |            |       | ×<br>$\lambda$ | Barium (aug./I Ba) Mo/G Total Hyd P(mg/l)         |                | , 10°<br>5 6   | 1           |
| Partial  Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec, Cond.                                                                                                                         | ed as Micro | grams P | Complete [ T.Hardness (mg/l CaCO <sub>3</sub> ) T. Alkalinity (mg/l CaCO <sub>3</sub> Ca Hardness (mg/l CaCO <sub>3</sub>                                                                                                  | 1    |            |       | X              | Barium (aug/l Ba) Mo/g Total Hyd P(mg/l)          |                | 1,2            | 1           |
| Partial  Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.                                                                                                                         | ed as Micro | grams P | Complete [ T.Hardness (mg/l CaCO <sub>3</sub> ) T. Alkalinity (mg/l CaCO <sub>3</sub> Ca Hardness (mg/l CaCO <sub>3</sub>                                                                                                  | 1    | 65         |       | X              | Barium (aug./I Ba) Mo/G Total Hyd P(mg/l)         |                | 1,2            | 1           |
| Partial  Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  Armhos/cm  Chlorides (mg/l Cl)                                                                                         | ed as Micro | grams P | Complete [T.Hardness (mg/l CaCO <sub>3</sub> ) T. Alkalinity (mg/l CaCO <sub>3</sub> Ca Hardness (mg/l CaCO <sub>3</sub> Mg Hardness(mg/l CaCO <sub>3</sub> )                                                              | 1    | 63         |       | X              | Barium (aug./I Ba) Mo/G Total Hyd P(mg/l)         |                | 1,2            |             |
| Partial  Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec, Cond, Armhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )                                                        | ed as Micro | grams P | Complete [ T.Hardness (mg/l CaCO <sub>3</sub> ) T. Alkalinity (mg/l CaCO <sub>3</sub> Ca Hardness (mg/l CaCO <sub>3</sub> ) Mg Hardness(mg/l CaCO <sub>3</sub> ) Arsenic (1)                                               | 1    | 63         |       | X              | Barium (aug./I Ba) Mo/G Total Hyd P(mg/l)         |                | 1,2            |             |
| Partial  Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  Amhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)                                        | ed as Micro | grams P | Complete [ T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1)                                            | 1    | 63         |       | X              | Barium (aug./I Ba) Mo/G Total Hyd P(mg/l)         |                | 1,2            | 1           |
| Partial  Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec, Cond, A/mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)  Manganese (mg/l Mn)                   | ed as Micro | grams P | Complete [ T.Hardness (mg/l CaCO <sub>3</sub> ) T. Alkalinity (mg/l CaCO <sub>3</sub> Ca Hardness (mg/l CaCO <sub>3</sub> ) Mg Hardness(mg/l CaCO <sub>3</sub> ) Arsenic (1)                                               | 1    | 63         |       | X              | Barium (aug./I Ba) Mo/G Total Hyd P(mg/l)         |                | 1,2            | 1           |
| Partial  Free Ammonia (mg/l N)  Nitrites +  Nitrates (mg/l N)                                                                                                                                                      | ed as Micro | grams P | Complete [ T.Hardness (mg/l CaCO <sub>3</sub> ) T. Alkalinity (mg/l CaCO <sub>3</sub> Ca Hardness (mg/l CaCO <sub>3</sub> ) Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1)                                              | 1    | 63         |       | X              | Barium (aug./I Ba) Mo/G Total Hyd P(mg/l)         |                | 1,2            | 1           |
| Partial  Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec, Cond, Armhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)  Manganese (mg/l Mn)  Copper (mg/l Cu) |             | grams P | Complete [ T.Hardness (mg/l CaCO <sub>3</sub> ) T. Alkalinity (mg/l CaCO <sub>3</sub> Ca Hardness (mg/l CaCO <sub>3</sub> ) Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) Selenium (1) Cadmium (1) Silver (1) Lead (1) | 1    | 63         |       | X              | Barium (aug./I Ba) Mo/G Total Hyd P(mg/l)         |                | 1,2            |             |

|     | Lab No. Field No.  Date:    1263027 |             | l                                       |      |        |                | Da   | te Received in Lab. Public Water. Private Water. Other. Date Completed. Examined By. |      | _  | _            |         | -<br>-<br>-<br>- |
|-----|-------------------------------------|-------------|-----------------------------------------|------|--------|----------------|------|--------------------------------------------------------------------------------------|------|----|--------------|---------|------------------|
| -   | SUF                                 | FOLK        | COUNTY DEPARTMEN PUBLIC HEALTH LA       |      |        |                | H SE | RVICES                                                                               |      |    |              |         |                  |
|     |                                     | (           | CHEMICAL EXAMINAT                       | ION  | OF     | TAW            | ER   |                                                                                      |      |    |              |         |                  |
| -   | Name I + F GRUCCI                   | SISPLI      | Y W. INC                                |      |        | wner<br>istric |      |                                                                                      |      |    |              |         | _                |
| _   | Location ASSOCIATION AL             | BE          | LPURT, NY                               |      |        |                |      |                                                                                      |      |    |              |         | _                |
|     | Point of Collection ASSOC           | <u>.</u> 86 | STROYED TRAIL                           | 2    | 572    | R1~            | 6- C | HEMICALS ~                                                                           | 165. | ري | <u>£</u>     |         | _                |
| _   | ASSOC<br>Remarks:                   | 12770       | -1 Rb "                                 |      |        |                |      |                                                                                      |      |    |              |         |                  |
|     | nemarks.                            |             |                                         |      |        |                |      |                                                                                      |      |    |              |         |                  |
| -   | (1) Results Reported as Microg      | rams Pe     | er Liter.                               |      |        |                |      | c                                                                                    |      |    |              |         |                  |
| _   |                                     |             |                                         |      |        |                |      |                                                                                      |      |    |              |         |                  |
|     | Partial 🗆                           |             | Complete —                              | <br> |        |                |      | Resample 🗆                                                                           | <br> |    |              |         | <b>+</b>         |
|     | Free Ammonia (mg/l N)               | } ]         | T.Hardness (mg/I CaCO <sub>3</sub> )    | 1    |        |                | X    | Barium (Nug/(Ba))                                                                    | 19   |    | 5            | +       |                  |
| _   | Nitrites + Nitrates (mg/l N)        |             | T. Alkalinity (mg/i CaCO <sub>3</sub> ) |      |        |                |      | Total Hyd P(mg/l)                                                                    | r    |    |              |         |                  |
|     | MBAS (mg/l)                         |             | Ca Hardness (mg/l CaCO <sub>3</sub> )   |      | $\bot$ |                | X    | 1946~1511-                                                                           |      |    | ۶.           | 1/      |                  |
| -   | pH                                  |             | Mg Hardness(mg/l CaCO <sub>3</sub> )    |      |        |                | ļ    | al melo                                                                              |      |    | /            |         |                  |
|     | Spec. Cond.  #mhos/cm               |             |                                         |      |        |                |      | 4.9                                                                                  |      |    | T            |         |                  |
| ^   | Chlorides (mg/l Cl)                 | X           | Arsenic (1) 64/9                        | 4    | 112    |                |      |                                                                                      |      | 1  |              |         |                  |
| _   | Sulfates (mg/l SO <sub>4</sub> )    |             | Selenium (1)                            |      |        |                |      | •                                                                                    |      |    | T            |         |                  |
|     | Iron (mg/l Fe)                      |             | Cadmium (1)                             |      |        |                |      | !                                                                                    |      |    |              |         |                  |
|     | Manganese (mg/l Mn)                 |             | Silver (1)                              |      |        |                |      |                                                                                      |      |    | $\mathbb{L}$ |         |                  |
| _   | Copper (mg/l Cu)                    |             | Lead (1)                                |      |        |                |      |                                                                                      |      |    |              |         |                  |
|     | Zinc (mg/l Zn)                      |             | Chromium (1)                            |      |        |                |      |                                                                                      |      |    |              |         |                  |
| -   | Sodium (mg/l Na)                    |             | Mercury (1)                             |      |        |                |      |                                                                                      |      |    |              | $\prod$ |                  |
| - 1 | Nitrites (mg/l N)                   |             | Fluoride (mg/l F)                       |      |        |                |      |                                                                                      |      |    |              |         |                  |
| -   | Form No. PHL-1                      |             | ı                                       | DIRE | стог   | ·              |      |                                                                                      |      |    | _            |         |                  |

| Lab No. Field No. 575 Date: 1262                                                                                                                                                                          | -12-5   | <u> </u>    |         |                                                                                                                                                                                                                         |                  |      |          | Di           | te Received <b>in Lab.</b><br>Public Water ,           | -            |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|----------|--------------|--------------------------------------------------------|--------------|------------|------------|
| Date: 12/2 Time: 23 Col. By: (Name not                                                                                                                                                                    |         | -<br>-<br>) |         | -                                                                                                                                                                                                                       |                  |      |          |              | Private Water . Other . Date Completed . Examined By . |              |            |            |
|                                                                                                                                                                                                           |         | SUF         |         | COUNTY DEPARTMEN<br>PUBLIC HEALTH LA<br>CHEMICAL EXAMINAT                                                                                                                                                               | ABO              | RAT  | OR       | 1            | ERVICES                                                |              |            |            |
| Name                                                                                                                                                                                                      |         |             |         | Y Co. 1~C.                                                                                                                                                                                                              |                  | [    |          | er or<br>ict | ·                                                      |              |            |            |
| Point of Collection                                                                                                                                                                                       |         | - of        | ) De    | STRIYED TRAILER                                                                                                                                                                                                         | , S <del>7</del> | ימפי | ~/6      | CHC          | (ALS ~ 400'                                            | <u>S. 13</u> | <i>f</i> - |            |
| (1) Results Reporte                                                                                                                                                                                       | ed as M | icrog       | rams Pi | er Liter.                                                                                                                                                                                                               |                  |      |          |              | ٠                                                      |              |            |            |
| Partial T                                                                                                                                                                                                 |         |             |         | Complete                                                                                                                                                                                                                |                  |      | _        |              | Resample [                                             | <br>1        |            |            |
| Partial 🗆                                                                                                                                                                                                 |         |             | 7       | Complete C                                                                                                                                                                                                              | <br>)<br>        |      | <u> </u> | T            | Resample                                               | , 1          | Т          | 20 p       |
| Free Ammonia (mg/l N) Nitrites +                                                                                                                                                                          |         |             |         | Complete  T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )                                                                                                                                 |                  |      |          | ×            | Resample  Barium (mg# Ba) ))  Total Hyd P(mg/l)        | , 1          | Т          | 20 p       |
| Free Ammonia (mg/l N)                                                                                                                                                                                     |         |             |         | T.Hardness (mg/l CaCO <sub>3</sub> )                                                                                                                                                                                    | ]                |      |          | ×            | Barium (mg# Ba) ));                                    | , 1          | 0 !        | <u>5</u> 2 |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)                                                                                                                                                       |         |             |         | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )                                                                                                                                           |                  |      |          | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 0 !        | . 0        |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)                                                                                                                                          |         |             |         | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )  Ca Hardness (mg/l CaCO <sub>3</sub> )                                                                                                    |                  |      |          | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 2          | . 0        |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.                                                                                                                         |         |             |         | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )  Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )                                                              |                  |      |          | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 2          | . 0        |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm                                                                                                               |         |             | X       | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )  Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )                                                              |                  |      | . 6      | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 2          | . 0        |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)                                                                                          |         |             |         | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )  Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) Mg/G                                            |                  |      |          | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 2          | . 0        |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )                                                        |         |             |         | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )  Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) H4/G  Selenium (1)                              |                  |      |          | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 2          | . 0        |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)                                        |         |             | X       | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )  Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) Mg/g  Selenium (1)  Cadmium (1)                 |                  |      |          | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 2          | . 0        |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)  Manganese (mg/l Mn)                   |         |             |         | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )  Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) f44/G  Selenium (1)  Cadmium (1)  Silver (1)    |                  |      |          | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 2          | . 0        |
| Free Ammonia (mg/l N)  Nitrites + Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)  Manganese (mg/l Mn)  Copper (mg/l Cu) |         |             |         | T.Hardness (mg/l CaCO <sub>3</sub> )  T. Alkalinity (mg/l CaCO <sub>3</sub> )  Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1)  Cadmium (1)  Cadmium (1)  Silver (1)  Lead (1) |                  |      |          | X            | Barium (mg# Ba) ))  Total Hyd P(mg/l)                  | 2010         | 2          | <u>. 0</u> |

| 1283030                                                                                                                                                                                                                 | 1       | ,         |                                       |             |     |     |               | ρ.          | te Received in Lab | DEC     | _       | ; 19            |   |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|---------------------------------------|-------------|-----|-----|---------------|-------------|--------------------|---------|---------|-----------------|---|---|
| Lab No.  Field No.  Date:  Date:  Time:  Col. By:  (Name not initials)  Date Received in Later Public Water Private Water Private Water Date Completed Examined Britannian Suffolk County Department of HEALTH SERVICES |         |           |                                       |             |     |     |               |             |                    | _       |         |                 | · |   |
|                                                                                                                                                                                                                         | S       | UFFOL     | PUBLIC HEALTH L                       | AB          | OR/ | OTA | RY            |             | RVICES             |         |         |                 |   |   |
|                                                                                                                                                                                                                         |         |           | CHEMICAL EXAMINA                      | 110         | N C | )ŀW | VAI           | ŁН          |                    |         |         |                 |   |   |
| Name Jaf GRI                                                                                                                                                                                                            |         |           |                                       | <del></del> |     |     | vne:<br>stric |             |                    |         |         |                 |   | - |
| Location ASSOCIA                                                                                                                                                                                                        | 1702 1  | 2D /B     | GLENRT NY                             | ····        |     |     |               | <del></del> |                    |         |         |                 |   | - |
| Point of Collection 4                                                                                                                                                                                                   | REAR    | + 50      | STROYES TRAILER                       | ک           | 70  | RIA | 16            | che         | michs - 400        | ہن کہ ا | <u></u> |                 |   | - |
| Remarks: ASS                                                                                                                                                                                                            | OCIAT   | 70~ 1     | <b>&amp;</b> .                        |             |     |     |               |             |                    |         |         |                 |   |   |
| nemorks.                                                                                                                                                                                                                |         |           |                                       |             |     |     |               |             |                    |         |         |                 |   |   |
|                                                                                                                                                                                                                         |         |           |                                       |             |     |     |               |             |                    | ·.      |         |                 |   |   |
| (1) Results Reported                                                                                                                                                                                                    | as Mici | ograms    | Per Liter.                            |             |     |     | <u>.</u>      |             |                    |         |         |                 |   |   |
| Partial 🔲                                                                                                                                                                                                               |         |           | Complete [                            | ]           |     |     |               |             | Resample [         |         | ∞,      | <sub>የ</sub> ድለ | * |   |
| ee Ammonia (mg/l N)                                                                                                                                                                                                     |         |           | T.Hardness (mg/l CaCO <sub>3</sub> )  |             |     |     |               | X           | Barium (אום Ba)    |         | 0       |                 |   |   |
| trites + rates (mg/1 N)                                                                                                                                                                                                 |         |           | T. Alkalinity (mg/l CaCO <sub>3</sub> |             |     |     |               |             | Total Hyd P(mg/l)  | 6-0     |         |                 |   |   |
| BAS (mg/l)                                                                                                                                                                                                              |         |           | Ca Hardness (mg/l CaCO <sub>3</sub>   |             |     | Ш   |               | X           | microssiu-         |         | 6       | 7.8             | ۷ |   |
|                                                                                                                                                                                                                         |         |           | Mg Hardness(mg/l CaCO <sub>3</sub> )  |             |     |     |               |             | al mal             | 0       | 29      | 2               |   |   |
| mhos/cm                                                                                                                                                                                                                 |         |           |                                       |             |     |     |               |             | 00                 | <i></i> | 34      |                 |   |   |
| rides (mg/l Cl)                                                                                                                                                                                                         |         |           | Arsenic (1) fly /q                    | 2           | 48  | 0   | AY.           | +           |                    |         |         |                 |   |   |
| Ifates (mg/I SO <sub>4</sub> )                                                                                                                                                                                          |         |           | Selenium (1)                          |             |     |     | 77            |             |                    |         |         |                 |   |   |
| /ff(mg/l Fe)                                                                                                                                                                                                            |         |           | Cadmium (1)                           |             |     |     |               | 1           |                    |         |         |                 |   |   |
| r inese (mg/l Mn)                                                                                                                                                                                                       |         |           | Silver (1)                            |             | T   |     |               |             |                    |         |         |                 |   |   |
| oper (mg/l Cu)                                                                                                                                                                                                          |         |           | Lead (1)                              |             |     |     |               |             |                    |         |         |                 |   |   |
| = ng/l Zn)                                                                                                                                                                                                              |         |           | Chromium (1)                          |             |     |     |               |             |                    |         |         |                 |   |   |
| um (mg/l Na)                                                                                                                                                                                                            |         | Ш.        | Mercury (1)                           | $\coprod$   | 1   |     |               |             |                    | -       |         |                 |   |   |
| :es (mg/l N)                                                                                                                                                                                                            |         | $\coprod$ | Fluoride (mg/l F)                     |             |     |     |               |             |                    |         |         |                 |   |   |

| Lab No. Field No. Date:  Time: Col. By:  [Name not initial column of the | 12-2       |         |                                                     |      |    |             |      | Dat    | te Received in Lab _<br>Public Water _<br>Private Water _<br>Other _<br>Date Completed _<br>Examined By _ |                           | _<br>_<br>_ |             | _  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------------------------------------------------|------|----|-------------|------|--------|-----------------------------------------------------------------------------------------------------------|---------------------------|-------------|-------------|----|
| !                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SUF        |         | COUNTY DEPARTMEN PUBLIC HEALTH LA CHEMICAL EXAMINAT | 4BO  | RA | TOF         | RΥ   |        | RVICES                                                                                                    |                           |             |             |    |
| Name J+F GR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UCCI (     | SISPU   | AT (0, 1~C.                                         |      |    | Owi<br>Dist |      |        |                                                                                                           |                           |             |             |    |
| Location ASSOUAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TUN RD     | . ,0    | tuport ~Y                                           |      |    |             |      | _      |                                                                                                           |                           |             |             |    |
| Point of Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | -       |                                                     | ٠, ، | ST | 03/         | איזה | - c    | ASSOCIATION                                                                                               | ه۲.<br>۲ <mark>۰,۲</mark> | <u>o</u> f  | ?<br>-<br>— |    |
| Remarks: (1) Results Reported a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | as Microgr | rams Pe |                                                     | ىىم  | y. | Le          | ō    | -flor- | . when and                                                                                                | ij.i                      | ار<br>      |             |    |
| Partial 🗆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         | Complete                                            | ]    |    |             |      |        | Resample 🗆                                                                                                |                           |             | ~ M         | 71 |
| Free Ammonia (mg/l N)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |         | T.Hardness (mg/l CaCO <sub>3</sub> )                |      |    |             |      | X      | Barium (mg# Ba) mg                                                                                        | 100                       | 7           | 34          | 1  |
| Nitrites +<br>Nitrates (mg/l N)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |         | T. Alkalinity (mg/l CaCO3                           |      |    |             |      |        | Total Hyd P(mg/l)                                                                                         |                           |             |             |    |
| MBAS (mg/l)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |         | Ca Hardness (mg/l CaCO <sub>3</sub> )               |      |    |             |      | X      | MAGNESIUM                                                                                                 |                           |             | ر، ا        | 1  |
| pH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |         | Mg Hardness(mg/l CaCO <sub>3</sub> )                |      |    |             |      |        | al mola                                                                                                   |                           | زاد         | 2           |    |
| Spec. Cond.<br>4mhos/cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |         |                                                     |      |    |             |      |        | 9.9                                                                                                       |                           |             |             |    |
| Chlorides (mg/l Cl)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | X       | Arsenic (1) /19/2                                   | *    |    | 3           |      |        |                                                                                                           |                           |             |             |    |
| Sulfates (mg/l SO <sub>4</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         | Selenium (1)                                        |      |    |             |      |        |                                                                                                           |                           |             |             |    |
| Iron (mg/l Fe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |         | Cadmium (1)                                         |      |    |             |      |        |                                                                                                           |                           |             |             |    |
| Manganese (mg/l Mn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |         | Silver (1)                                          |      |    |             |      |        |                                                                                                           |                           | T           |             | T  |
| Copper (mg/l Cu)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         | Lead (1)                                            |      | П  |             |      |        |                                                                                                           |                           | T           | 1           |    |
| Zinc (mg/l Zn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |         | Chromium (1)                                        |      |    |             |      |        |                                                                                                           | _                         | 1           | 1           | T  |
| Sodium (mg/l Na)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         | Mercury (1)                                         |      |    |             |      |        | -                                                                                                         | 7                         | 1           | 1           | T  |
| 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |         |                                                     |      |    |             |      |        | <del> </del>                                                                                              |                           | -           |             | -  |

|   | Lab No. Field No.  Date:  Time:  Col. By:  [1/28/12]  [Name not initial.] | <del>2</del> \$ |         |                                        |     |        | Da                                               | te Received in Lab<br>Public Water<br>Private Water<br>Other<br>Date Completed<br>Examined By | _   |              |          | <del>-</del> |
|---|---------------------------------------------------------------------------|-----------------|---------|----------------------------------------|-----|--------|--------------------------------------------------|-----------------------------------------------------------------------------------------------|-----|--------------|----------|--------------|
|   |                                                                           | SUF             | FOLK C  | OUNTY DEPARTMENT (                     |     |        |                                                  | RVICES                                                                                        |     |              |          |              |
| - |                                                                           |                 | CH      | IEMICAL EXAMINATION                    |     |        |                                                  |                                                                                               |     |              |          |              |
|   | ( 0 )(( ) 00:                                                             | . (             |         |                                        |     | Owne   |                                                  |                                                                                               |     |              |          |              |
| _ | Name GRUCCI BRE                                                           |                 |         |                                        |     | Distri | ct                                               |                                                                                               |     |              |          |              |
|   | Location ASSOCIATIO                                                       |                 |         |                                        |     |        |                                                  |                                                                                               |     |              |          | _            |
| - | Point of Collection                                                       | <u>52.5</u>     | of As   | SOCI, 4,00 P.S. 4,00                   |     | o' h   | J. 6 <del>/</del>                                | -WEST BOUNDARY                                                                                | 10  | <i>ک کمہ</i> | <u>(</u> | _            |
|   | Remarks:                                                                  |                 |         |                                        |     |        |                                                  |                                                                                               |     |              |          |              |
| _ |                                                                           |                 |         |                                        |     | •      |                                                  |                                                                                               |     |              |          |              |
| - | (1) Results Reported as                                                   | s Microgr       | ams Per | Liter.                                 |     |        |                                                  | <b>'</b> .                                                                                    |     |              |          |              |
| - | Partial 🗆                                                                 |                 |         | Complete                               |     |        |                                                  | Resample 🗆                                                                                    |     |              |          |              |
|   | Free Ammonia (mg/l N)                                                     |                 | Т       | .Hardness (mg/l CaCO <sub>3</sub> )    |     |        | X                                                | Barium (mg/l Ba) hao /s                                                                       | 0   | 3            | 5        |              |
|   | Nitrites + Nitrates (mg/l N)                                              |                 | Т       | . Alkalinity (mg/l CaCO <sub>3</sub> ) |     |        |                                                  | Total Hyd P(mg/l)                                                                             |     |              |          |              |
| _ | MBAS (mg/l)                                                               |                 | С       | a Hardness (mg/I CaCO <sub>3</sub> )   | 77  |        | X                                                | ~46,~ £3100-                                                                                  |     | a            | 9        |              |
|   | рН                                                                        |                 | N       | ng Hardness(mg/l CaCO <sub>3</sub> )   |     |        |                                                  | as mala                                                                                       | /   | 4            |          |              |
| - | Spec. Cond.                                                               |                 |         |                                        |     |        |                                                  | 010                                                                                           |     |              |          |              |
|   | Chlorides (mg/I Cl)                                                       |                 | X       | Arsenic (1) Mig kg                     |     | 83     |                                                  |                                                                                               |     |              |          |              |
|   | Sulface (=== 0 SO )                                                       |                 |         | Selenium (1)                           |     |        |                                                  |                                                                                               |     |              |          |              |
| L | Sulfates (mg/l SO <sub>4</sub> )                                          |                 |         |                                        | ) [ | 1 1    |                                                  | •                                                                                             | 1 1 |              |          | _            |
|   | Iron (mg/l Fe)                                                            |                 | 1       | Cadmium (1)                            |     |        | <del>                                     </del> |                                                                                               |     |              |          |              |
|   | <del></del>                                                               |                 | C       | Cadmium (1)                            |     |        |                                                  |                                                                                               |     |              |          |              |
|   | Iron (mg/l Fe)                                                            |                 | s       | <del></del>                            |     |        |                                                  |                                                                                               |     |              |          |              |
|   | Iron (mg/l Fe)  Manganese (mg/l Mn)                                       |                 | S       | Silver (1)                             |     |        |                                                  |                                                                                               |     |              |          |              |
|   | Iron (mg/l Fe)  Manganese (mg/l Mn)  Copper (mg/l Cu)                     |                 | S       | ilver (1)                              |     |        |                                                  |                                                                                               |     |              |          |              |

DIRECTOR \_\_\_\_

Form No. PHL-1

| - | Lab No. Field No. Date:  Time:  Col. By:  [1283624]  [1283624]  [3-15-11-28]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624]  [1283624] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Date Received in Lab Public Water Private Water Other Date Completed Examined By |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|   | SUFFO                                                                                                                                                                                                                                                                                                                          | LK COUNTY DEPARTMENT OF HEA PUBLIC HEALTH LABORATOF CHEMICAL EXAMINATION OF WA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RY                                                                               |
|   | Name GRUCCI BROS 1/<br>Location ASSOCIATION RD                                                                                                                                                                                                                                                                                 | 7CDist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | west of GRUCCI BULLBARY FENC                                                     |
| - | Point of Collection <u>S/8 S c+</u><br>Remarks:                                                                                                                                                                                                                                                                                | ASSOCIATION / (1) 4~15 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Less of arcicl 3000 profession                                                   |
|   | (1) Results Reported as Microgram                                                                                                                                                                                                                                                                                              | s Per Liter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                  |
|   | Partial 🗔                                                                                                                                                                                                                                                                                                                      | Complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Resample                                                                         |
|   | Free Ammonia (mg/l N)                                                                                                                                                                                                                                                                                                          | T.Hardness (mg/l CaCO <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Barium (100/1 Ba) Mo/g 0.13                                                      |
| _ | Nitrites + Nitrates (mg/l N)                                                                                                                                                                                                                                                                                                   | T. Alkalinity (mg/l CaCO <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Total Hyd P(mg/l)                                                                |
|   | MBAS (mg/l)                                                                                                                                                                                                                                                                                                                    | Ca Hardness (mg/l CaCO <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X macrish > 3.3                                                                  |
| _ | рН                                                                                                                                                                                                                                                                                                                             | Mg Hardness(mg/l CaCO <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | al rig/9 07                                                                      |
| 1 | Spec. Cond. 4 mhos/cm                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 010                                                                              |
|   | Chlorides (mg/l Cl)                                                                                                                                                                                                                                                                                                            | X Arsenic (1) \( \mathcal{I} \operatorum \langle \alpha \rangle \operatorum \langle \alpha \rangle \operatorum \langle \operat |                                                                                  |
| _ | Sulfates (mg/I SO <sub>4</sub> )                                                                                                                                                                                                                                                                                               | Selenium (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                  |
|   | Iron (mg/l Fe)                                                                                                                                                                                                                                                                                                                 | Cadmium (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                  |
|   | Manganese (mg/l Mn)                                                                                                                                                                                                                                                                                                            | Silver (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                  |
| ٦ | Copper (mg/l Cu)                                                                                                                                                                                                                                                                                                               | Lead (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |
|   | Zinc (mg/l Zn)                                                                                                                                                                                                                                                                                                                 | Chromium (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                  |
|   | Sodium (mg/l Na)                                                                                                                                                                                                                                                                                                               | Mercury (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                  |
|   | Nitrites (mg/l N)                                                                                                                                                                                                                                                                                                              | Fluoride (mg/l F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  |
|   | ~~ <u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>                                                                                                                                                                                                                                                                                  | DIRECTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u> </u>                                                                         |

Form No. PHL-1

| •     | Lab No. Field No. 2-TD-11-28° Date: 11/26/12 Time: 11/26/12 Col. By: (Name not initials)                                                                                   |                                           |                                                                                                                                                             |            | Da                                    | DEC  te Received in Lab  Public Water  Private Water  Other  Date Completed  Examined By | <u>/</u>      |  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------|------------------------------------------------------------------------------------------|---------------|--|
|       | -                                                                                                                                                                          | SUFFOLK                                   | COUNTY DEPARTMENT C                                                                                                                                         |            |                                       | RVICES                                                                                   |               |  |
| -     | •                                                                                                                                                                          | (                                         | CHEMICAL EXAMINATION                                                                                                                                        | V OF W     | ATER                                  |                                                                                          |               |  |
| _     |                                                                                                                                                                            | Name Grucel Bros INC.  Owner or  District |                                                                                                                                                             |            |                                       |                                                                                          |               |  |
|       | · Location ASSOCIATION                                                                                                                                                     | RD, BE                                    | LART, NY                                                                                                                                                    |            | · · · · · · · · · · · · · · · · · · · |                                                                                          |               |  |
|       | Point of Collection 192 G                                                                                                                                                  | S of<br>Rucci                             | BOUNDARY FENCE                                                                                                                                              | <u>4~B</u> | 90° €1                                | 457 of                                                                                   |               |  |
|       | (1) Results Reported as Mic                                                                                                                                                | crograms Pe                               | er Liter.                                                                                                                                                   | ·          |                                       |                                                                                          |               |  |
|       | Partial 🗆                                                                                                                                                                  |                                           | Complete                                                                                                                                                    |            |                                       | Resample 🗆                                                                               |               |  |
|       | Free Ammonia (mg/l N)                                                                                                                                                      |                                           | T.Hardness (mg/l CaCO <sub>3</sub> )                                                                                                                        |            | $\parallel$ $\times$                  | Barium (mg/l Ba) ]n:/q                                                                   | 0.15          |  |
| - 1   |                                                                                                                                                                            | 1 1 1 1                                   | T. Alkalinity (mg/l CaCO <sub>3</sub> )                                                                                                                     | 111        |                                       | Total Hyd P(mg/l)                                                                        |               |  |
|       | Nitrites + Nitrates (mg/LN)                                                                                                                                                |                                           | (, , , , , , , , , , , , , , , , , , ,                                                                                                                      | 1-1-1      | <del></del>                           |                                                                                          |               |  |
|       |                                                                                                                                                                            |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )                                                                                                                       |            | X                                     | ~~6~1010~                                                                                | - //          |  |
| 1     | Nitrates (mg/l N)  MBAS (mg/l)  pH                                                                                                                                         |                                           |                                                                                                                                                             |            | X                                     | CA Ma/9                                                                                  | 0.5           |  |
|       | Nitrates (mg/I N) MBAS (mg/I)                                                                                                                                              |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )                                                                                                                       |            | X                                     |                                                                                          | - 111<br>D-5  |  |
|       | Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.                                                                                                                            |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )                                                                                 | 55         | X                                     |                                                                                          | - 111<br>D-5  |  |
|       | Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm                                                                                                                  |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )                                                                                 | 55.        |                                       |                                                                                          | 0.5           |  |
|       | Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  4 mhos/cm  Chlorides (mg/l Cl)                                                                                            |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) /4/5                                                               | 55.        |                                       |                                                                                          | 0.5           |  |
|       | Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )                                                           |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) //// Selenium (1)                                                  | 55         |                                       |                                                                                          | 0.5           |  |
| ! ! ! | Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)                                           |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) //// Selenium (1)  Cadmium (1)                                     | 55         |                                       |                                                                                          | - 111<br>D-ST |  |
|       | Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)  Manganese (mg/l Mn)                      |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) //C/ <sub>2</sub> Selenium (1)  Cadmium (1)  Silver (1)            | 55         |                                       |                                                                                          | - 111<br>D-5  |  |
|       | Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond. 4/mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO <sub>4</sub> )  Iron (mg/l Fe)  Manganese (mg/l Mn)  Copper (mg/l Cu)    |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) AG/s  Selenium (1)  Cadmium (1)  Silver (1)  Lead (1)              | 55         |                                       |                                                                                          | 0.5           |  |
|       | Nitrates (mg/l N)  MBAS (mg/l)  pH  Spec. Cond.  #mhos/cm  Chlorides (mg/l Cl)  Sulfates (mg/l SO4)  Iron (mg/l Fe)  Manganese (mg/l Mn)  Copper (mg/l Cu)  Zinc (mg/l Zn) |                                           | Ca Hardness (mg/l CaCO <sub>3</sub> )  Mg Hardness(mg/l CaCO <sub>3</sub> )  Arsenic (1) //// Selenium (1)  Cadmium (1)  Silver (1)  Lead (1)  Chromium (1) | 55         |                                       |                                                                                          | 0.5           |  |

Form No. PHL-1

| Lab No. Field No.   -Tb-  -> Date:                             Time:                       Col. By: | <u>**</u><br><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4                                       |           | DEC  Date Received in Lab  Public Water  Private Water  Other  Date Completed  Examined By |      |   |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|--------------------------------------------------------------------------------------------|------|---|
| -                                                                                                   | SUFFOLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COUNTY DEPARTMENT PUBLIC HEALTH LAB     |           | H SERVICES                                                                                 |      |   |
| -                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CHEMICAL EXAMINATION                    | ON OF WAT | ER                                                                                         |      |   |
| Name Crucal                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |           | t                                                                                          |      | _ |
|                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B. BULPURT NY                           |           |                                                                                            |      | _ |
| Point of Collection                                                                                 | 3' S uf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ASSOCIATION RD +                        | 72 ~ =    | f +HK W. GRUCCI fo                                                                         | -~CE |   |
| Remarks:                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •                                       |           |                                                                                            |      |   |
| (1) Results Reported as  Partial                                                                    | Micrograms I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Per Liter.  Complete                    |           | Resample $\Box$                                                                            |      |   |
| Free Ammonia (mg/l N)                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | T.Hardness (mg/I CaCO <sub>3</sub> )    |           | Barium (mgd Ba) mg/6                                                                       | 7013 | T |
| Nitrites + Nitrates (mg/l N)                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | T. Alkalinity (mg/l CaCO <sub>3</sub> ) |           | Total Hyd P(mg/l)                                                                          |      |   |
| TMBAS (mg/l)                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ca Hardness (mg/l CaCO <sub>3</sub> )   |           | X ME resium                                                                                | 0.14 |   |
| pH                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mg Hardness(mg/l CaCO <sub>3</sub> )    |           | al mala                                                                                    | 06   |   |
| Spec. Cond. 4mhos/cm                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |           | 0.6                                                                                        |      |   |
| Chlorides (mg/l Cl)                                                                                 | $ \hspace{.06cm} $ | Arsenic (1) Mg/q                        | 8         |                                                                                            |      |   |
| Sulfates (mg/i SO <sub>4</sub> )                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Selenium (1)                            |           |                                                                                            |      |   |
| ron (mg/i Fe)                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cadmium (1)                             |           |                                                                                            |      |   |
| Manganese (mg/l Mn)                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Silver (1)                              |           |                                                                                            |      |   |
| Copper (mg/l Cu)                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lead (1)                                |           |                                                                                            |      |   |
| Zinc (mg/l Zn)                                                                                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Chromium (1)                            |           |                                                                                            |      |   |
| Sodium (mg/l Na)                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mercury (1)                             |           |                                                                                            |      |   |
| Jitrites (mg/l N)                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fluoride (mg/l F)                       |           |                                                                                            |      |   |

₩rm No. PHL-1

DIRECTOR \_\_\_\_\_

| Lab No. Field No.  Date: Time: Col. By:  (Name not initials) |                                                    | Date Received in Lab Public Water Private Water Other Date Completed Examined By |  |  |  |  |  |  |
|--------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------|--|--|--|--|--|--|
| SUFF<br>-                                                    | OLK COUNTY DEPARTMENT OF I<br>PUBLIC HEALTH LABORA |                                                                                  |  |  |  |  |  |  |
| -                                                            | CHEMICAL EXAMINATION O                             | FWATER                                                                           |  |  |  |  |  |  |
| Name GRUCCI BRES, INC. District                              |                                                    |                                                                                  |  |  |  |  |  |  |
| Location ASSOCIATION R                                       | D. BELL PORT- NY                                   |                                                                                  |  |  |  |  |  |  |
| Point of Collection GRWND                                    | PUBLIC 100'S of ASSOCIA                            | 4770~ Rb.                                                                        |  |  |  |  |  |  |
| Remarks:                                                     |                                                    |                                                                                  |  |  |  |  |  |  |
|                                                              |                                                    |                                                                                  |  |  |  |  |  |  |
| (1) Results Reported as Microgra                             | ams Per Liter.                                     | '                                                                                |  |  |  |  |  |  |
| Partial 🔲                                                    | Complete                                           | Resample 🗆                                                                       |  |  |  |  |  |  |
| Free Ammonia (mg/l N)                                        | T.Hardness (mg/l CaCO <sub>3</sub> )               | Barium (mg/l Ba)                                                                 |  |  |  |  |  |  |
| Nitrites + Nitrates (mg/l N)                                 | T. Alkalinity (mg/l CaCO <sub>3</sub> )            | Total Hyd P(mg/l)                                                                |  |  |  |  |  |  |
| MBAS (mg/l)                                                  | Ca Hardness (mg/l CaCO <sub>3</sub> )              | 1 / maps 177                                                                     |  |  |  |  |  |  |
| pH                                                           | Mg Hardness(mg/l CaCO <sub>3</sub> )               | al mall 177                                                                      |  |  |  |  |  |  |
| Spec. Cond.  #mhos/cm                                        |                                                    |                                                                                  |  |  |  |  |  |  |
| Chlorides (mg/I CI)                                          | Arsenic (1) - 30                                   | 5                                                                                |  |  |  |  |  |  |
| Sulfates (mg/l SO <sub>4</sub> )                             | Selenium (1)                                       |                                                                                  |  |  |  |  |  |  |
| iron (mg/l Fe)                                               | Cadmium (1)                                        |                                                                                  |  |  |  |  |  |  |
| Manganese (mg/l Mn)                                          | Silver (1)                                         |                                                                                  |  |  |  |  |  |  |
| Copper (mg/l Cu)                                             | Lead (1)                                           |                                                                                  |  |  |  |  |  |  |
| Zinc (mg/l Zn)                                               | Chromium (1)                                       |                                                                                  |  |  |  |  |  |  |
| Sodium (mg/i Na)                                             | Mercury (1)                                        |                                                                                  |  |  |  |  |  |  |
| Nitrites (mg/l N)                                            | Fluoride (mg/l F)                                  |                                                                                  |  |  |  |  |  |  |

Form No. PHL-1

DIRECTOR \_\_\_\_\_

| -           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>-</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <del></del> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| -           | Reference 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | north of the second of the sec |
| -           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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COUNTY OF SUFFOLK



Druci (IW)

## PETER F. COHALAN SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS, M.D., M.P.H.

February 27, 1986

Hon. Henrietta Acampora Supervisor Town of Brookhaven 205 South Ocean Avenue Patchogue, New York 11772

Dear Henrietta:

Thank you for your memorandum of February 7, 1986 regarding the Grucci Fireworks Factory in Bellport. Even though it was directed to several people, I will attempt to respond to those items directly in my area of responsibility.

Water samples were last collected in this area in July 1984 from private wells downgradient of the Grucci property. The results of these tests showed no evidence of water quality problems. In light of the residents' concerns, we are planning additional test wells sampling at the end of this month.

May I add, there is no evidence to suggest there were ever any discharges of toxic materials to the groundwater at the Grucci site. Since the manufacture of fireworks is a dry assembly operation, toxic discharges are generally not an inherent part of the process. We have sampled a cesspool at the site, and there is no indication of illegal discharges.

A variety of chemicals were dispersed at the site by the explosion and fire. Most were of low level toxicity. All chemical containers and residues were collected and removed by a properly licensed industrial waste firm. Areas where chemicals were spilled directly on the soil were excavated, and the soil was removed for disposal at a chemical landfill out of state. Then the entire site was scraped free of all rubble, and the top layer of soil removed to eliminate any additional possible areas of minor contamination.

225 RABRO DRIVE EAST HAUPPAUGE, N.Y. 11788 (516) 348-2917 2700 Hon. Henrietta Acampora Page 2 February 27, 1986

There is no reason to believe, at the present time, that there is need for any further cleanup. However, New York State Department of Environmental Conservation decided to list the Grucci site on the Superfund list to provide opportunity to conduct a complete exploration of the soil and groundwater in order to make a final determination. The original cleanup was paid for initially with Superfund money, and they wish to complete the investigation.

If you need additional information, please don't hesitate to contact me.

Very truly yours,

David Harris, M.D., M.P.H. Commissioner

DH/1st

cc Hon. Peter F. Cohalan

Mr. Allen Sack, Brookhaven Town Attorney

Mr. Thomas Liguori, Brookhaven Department of Safety

Mr. Thomas Cramer, Director, Environmental Protection

Reference 10

COUNTY OF SUFFOLK



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PETER F. COHALAN SUFFOLK COUNTY EXECUTIVE

**DEPARTMENT OF HEALTH SERVICES** 

DAVID HARRIS, M.D., M.P.H.
COMMISSIONER

December 7, 1983

1983-337

Ms. Alice Amrhein
Assistant Deputy County Executive
H. Lee Dennison Building
Veterans Memorial Highway
Hauppauge, New York 11788

Dear Alice:

SUBJECT: NEW YORK PYROTECHNICS, INC. (GRUCCI), BELLPORT

Enclosed is a brief report of the New York Pyrotechnics, Inc. (Grucci), Bellport, situation.

The report outlines what my department has found to date and attempts to project costs associated with our participation in this investigation.

Also enclosed are some of the laboratory analyses of materials collected and some groundwater samples of the area. The remaining samples are still being analyzed and results will be forwarded under separate cover.

As general background, most of the homes immediately adjacent to the Grucci property are served by private wells. There is no public water available south of the property to the boundary of the Village of Bellport. The nearest water mains are located on Station Road to the east and Susan Road to the west. Location of existing water mains are shown on the enclosed map.

The two public water supply wellfields at Station Road and Head of Neck Road which service the area meet all drinking water standards.

Ms. Alice Amrhein Page 2 December 7, 1983

Private wells sampled in the past indicate the quality is typical to countywide averages. A water quality survey for the Bellport area was conducted in 1979. A copy of the summary report is enclosed.

If I can provide any further assistance in this matter, please do not hesitate to contact me.

Very truly yours,

David Harris, M.D., M.P.H.

Commissioner

DH/1st Enclosures

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Référence 1

## FANNING, PHILLIPS & MOLNAR

Consulting Engineers 80 SKYLINE DRIVE

PLAINVIEW, NEW YORK 11803

RICHARD FANNING, P.E. (1931-1984) KEVIN J. PHILLIPS, P. E., Ph. D. GARY A. MOLNAR, P. E.

516/938-2200 218/767-3337

February 12, 1986

Mr. Felix Grucci, Jr. New York Pyrotechnic Products Inc. Association Bellport, NY 11713

Dear Mr. Grucci:

Enclosed is a letter report regarding your status as an inactive hazardous waste site.

Very truly yours,

Kevin J. Phillips, P.E., Ph.D. Principal, Fanning, Phillips and Molnar

KJP:sg

Enclosure

As a result of a Newsday article that appeared in January, 1986, some concern has been raised about the possibility of New York Pyrotechnic Products Inc. being an inactive hasardous waste site. The confusion lies in the fact that any cleanup that occurred for any firmwas the criteria for Suffolk County Health Servicesto request inactive hazardous waste site designation. This request immediately places any site on an inactive hazardous waste site to be investigated. where New York Pyrotechnic Products Inc. is right now. The basis for this request by Suffolk County is a result of the explosion at the facility that took place November 26, 1983. On that day, an explosion took place and most of the chemicals that were stored on the site went up with the explosion, however some chemicals remained and were scattered throughout the site. The Suffolk County Department of Health Services visited the site the next day and began what they considered as a chemical cleanup of the site and removed, packaged, transported and disposed of in a secure landfill, certain hazardous chemical that were found on the site. These chemicals, mixed in with soil were tested for "RCRA" characteristics and found to be non toxic. Nevertheless, the chemicals were shipped off site to a secure landfill in Buffalo. The Suffolk County Health Department remained on the site until all the chemicals that were mixed with the soil were removed from the site, New York State Department of Environmental Conservation was also involved in the cleanup as was the Town of Brookhaven Department of Environmental Protection. All three groups were involved and wrote field reports up as to the nature of the cleanup. New York State DEC took final reponsibility for cleaning up the site

on November 29, 1983 in a letter signed by James Heil, who at that time was the regional solid waste engineer for NYS D.E.C.

In a follow-up testing of the groundwater, the Health Department collected six samples of wells downgradient of the Grucci site and tested each of these wells for 56 individual parameters. None of the six wells that were tested, which were all downgradient from the Grucci site showed any degree of contamination.

To summarise the facts, an explosion took place, which scattered some chemicals on the Bellport site. These chemicals were cleaned up by the New York State Department of Environmental Conservation and the Suffolk County Health Department. The soil mixed with chemicals was sent to a secure landfill in Buffalo; a follow-up testing program was initiated by Suffolk County Health Department investigating six downgradient wells from the Grucci site and each one of those wells showed no impact on the groundwater.

Given the facts, it is clear that NYSDEC will eventually drop New York Pyrotechnic Products from the inactive hazardous waste list and concentrate their efforts on legitimate inactive hazardous waste sites.