EPA WORK ASSIGNMENT NO: 076-2JZZ
EPA CONTRACT NO: 68-W8-0110
FOSTER WHEELER ENVIRONMENTAL CORPORATION

ARCS II PROGRAM

FINAL
SCREENING SITE INSPECTION (SSI)
STAR CARTING COMPANY
GARDEN CITY PARK
NASSAU COUNTY, NEW YORK
CERCLIS NO.: NYD064726938

MARCH 1996

VOLUME I OF II

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355928

March 26, 1996
ARCS II-96-076-0034

Ms. Catherine E. Moyik
Work Assignment Manager
US Environmental Protection Agency
18th Floor
290 Broadway
New York, New York 10007

SUBJECT: ARCS II PROGRAM - EPA CONTRACT NO. 68-W8-0110
WORK ASSIGNMENT 076-2JZZ - PREREMEDIAL INVESTIGATIONS
SCREENING SITE INSPECTION (SSI) FINDINGS
STAR CARTING COMPANY

Dear Ms. Moyik:

The following is a summary of the Screening Site Inspection (SSI) evaluation of the Star Carting Company (Star Carting) site, CERCLIS No. NYD064726938, located at 94 Denton Avenue, Garden City Park, Nassau County, New York. The geographic coordinates for the site are 40°44'25" N latitude and 73°40'19" W longitude (Ref. 3, p. 1 of 1).

General Description and Site History

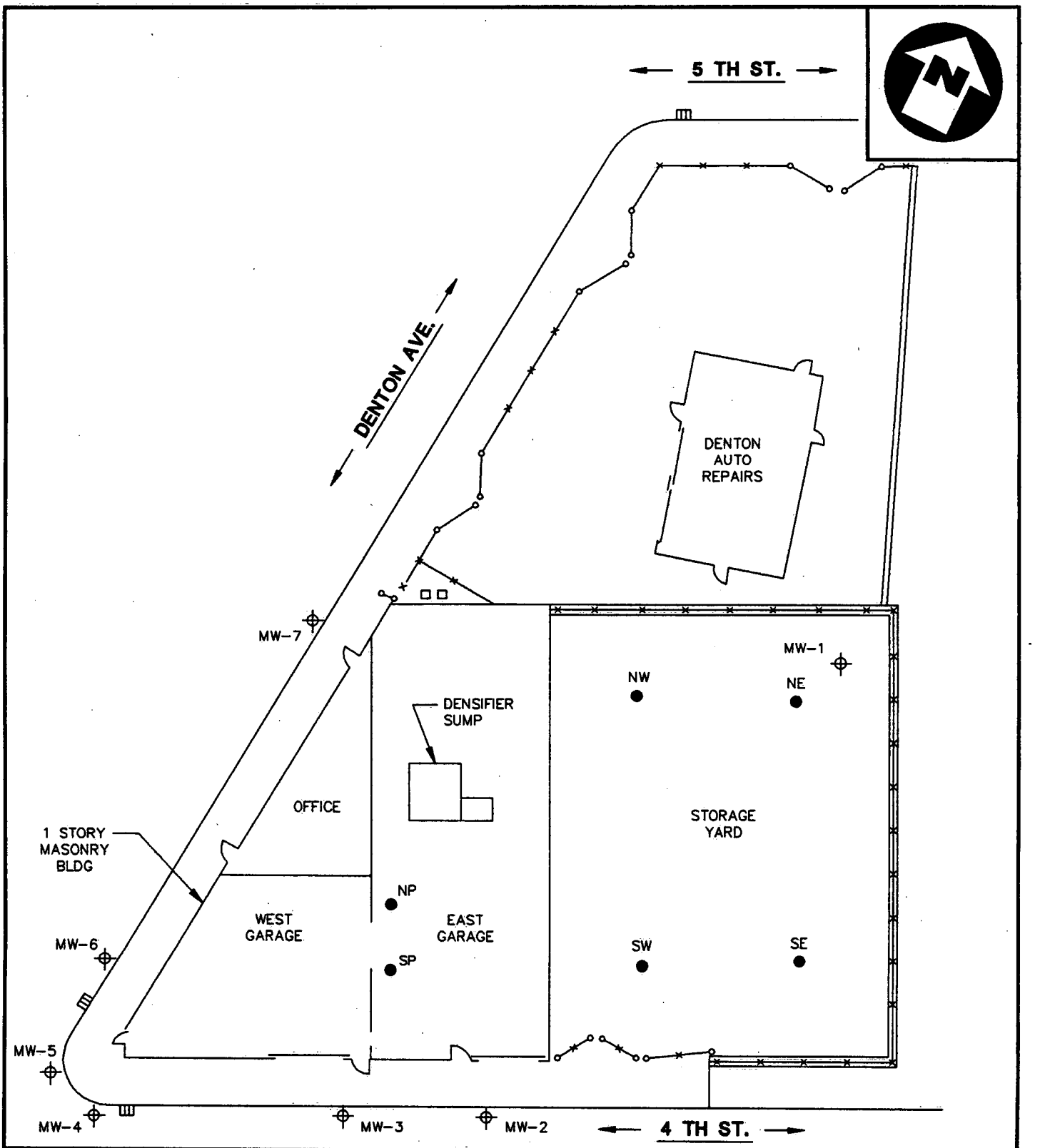
Star Carting is a commercial property located on an approximately 0.3-acre parcel (Lots 142, 143, 144, & 156, Block 233) in a light industry section of Garden City Park, New York (Ref. 4, pp. 10 and 15 of 31; Ref. 5, p. 1 of 1). The site is located at the corner of Denton Avenue and 4th Street and is bordered by: an auto repair shop (formerly a gas station) on the north, private residences on the east, 4th Street on the south, and Denton Avenue on the west (Ref. 4, pp. 7 and 14 of 31). Ground elevation of the site is at approximately 90 feet above mean sea level and topography is relatively flat (Ref. 3, p. 1 of 1). A single building occupies the west half of the property and a storage yard the east half (Ref. 4, p. 3 of 31). Entrances for the garages and storage yard are located off of 4th Street. The building is constructed of brick and has an 8-inch-thick concrete floor (Ref. 4, p. 3 of 31; Ref. 6, p. 2 of 3). It includes two garages and an office (Ref. 4, pp. 3 and 13 of 31). A 12-inch-thick concrete slab serves as the base for the storage yard (Ref. 6, p. 2 of 3). Four dry wells are centrally located in the northwest, northeast, southwest, and southeast sections of the storage yard. A gated chain-link fence, which sits atop a retaining wall, surrounds the storage yard (Ref. 4, pp. 5 and 14 of 31). Figure 1 depicts the general site location and Figure 2 depicts a detailed site sketch.

SITE LOCATION MAP

STAR CARTING COMPANY
GARDEN CITY PARK, NEW YORK

EBASCO ENVIRONMENTAL

FIGURE 1



KEY:

- MONITORING WELL
- DRY WELL
- STORM DRAIN

30 0 30

SCALE IN FEET

BASE MAP ADAPTED FROM DONNELLY ENGINEERING FOR STAR CARTING CO. MAY 8, 1992

QUADRANGLE LOCATION

SITE LOCATION MAP

STAR CARTING COMPANY
GARDEN CITY PARK, NEW YORK

EBASCO ENVIRONMENTAL

FIGURE 2

Star Carting operated as a transfer station for refuse collected from local municipalities between 1976 and 1986 (Ref. 7, p. 4 of 7; Ref. 8, p. 2 of 5). Bonsera Inc. was the company owner, and Susan and Michael Bonsera the property owners at that time (Ref. 9, p. 1 of 3). During the latter part of the 1970s and the early part of the 1980s the facility also operated under the name Hillside Ash and Rubbish Removal Company, which was owned by Hillside Ash and Rubbish Removal, Inc. (Ref. 10, p. 1 of 1). Some form of refuse handling has been conducted at the site since 1938 (Ref. 4, pp. 1 and 13 of 31).

Between 1976 and 1986, the Star Carting facility handled an average of 50 tons of refuse as day, with a daily maximum of 100 tons (Ref. 11, p. 1 of 1; Ref. 12, p. 1 of 1). Transfer operations took place in the east garage of the building. The east garage layout included two conveyors, situated at right angles to one another and oriented in north-south (Conveyor No. 2) and east-west (Conveyor No. 1) directions with a compactor at the east terminus (Ref. 13, p. 1 of 1; Ref. 14, p. 1 of 1) The conveyor-compactor system was located at the north end of the garage and was expanded from a one conveyor system to a two conveyor system sometime in 1979 (Ref. 13, p. 1 of 1). An unlined sump, also called a densifier sump, was located under Conveyor No. 2. Two unlined dry wells were also located in the east garage due south of Conveyor No. 2. A sanitary cesspool was located under the west garage (Ref. 15, pp. 1 and 2 of 2).

Wastes from local municipalities were brought to the facility and loaded onto the conveyor system which feed the compactor. The compacted contents were emptied into a roll-off truck container and then transferred to the Hempstead-Roslyn incinerator facility or one of four landfills located in Long Island (Oyster Bay, Hempstead, Islip, or Smith Town) (Ref. 6, p. 1 of 3; Ref. 10, p. 1 of 1; Ref. 16, p. 1 of 2). During the loading of refuse, a waste stream was generated. The waste stream spilled from Conveyor No. 2 into the densifier sump, as well as over the concrete floor where it eventually discharged or was washed back into the densifier sump or one of the two unlined dry wells located in the east garage (Ref. 7, pp. 3 and 4 of 7). The outside storage yard was used for truck maintenance and storage. Emptied trucks were washed in the yard and the waste stream generated from washing discharged to one of the four exterior dry wells located in the yard (Ref. 7, pp. 3 and 4 of 7). Star Carting currently operates as a roll-off container service; and the garages and the storage yard are now used for truck maintenance and storage (Ref. 4, pp. 2 and 13 of 31). The conveyor compactor system has been abandoned in place (Ref. 4, pp. 3 and 13 of 31).

In October of 1983 the NYSDEC (NYSDEC) issued a notice of violation to Hillside Ash and Rubbish Removal Inc. for operating a solid waste management facility without a required permit (Ref. 17, p. 1 of 1). Star Carting submitted a New York Part 360 permit application to operate a solid waste management facility in October of 1983 (Ref. 14, p. 1 of 1). After a lengthy review which included an Administrative Law Hearing, the permit was denied on April 24, 1986 (Ref. 18, p. 2 of 2). As part of the 1986 denial, Star Carting was again ordered to cease the receipt, compacting, and transfer of solid waste (Ref. 18, p. 2 of 2). Star Carting appealed the decision on several occasions; however, the denial of the permit was upheld (Ref. 19, p. 2 of 2; Ref. 20, p. 2 of 2).

Several complaints from local residents were filed with the Nassau County Department of Health (NCDH) and the NYSDEC regarding odors and activities associated with the Star Carting facility during 1984 and 1985 (Ref. 21, p. 1 of 1; Ref. 22, pp. 1 thru 5 of 5; Ref. 23, pp. 2 thru 4 of 4).

One of the complaints was in the form of a petition to the NYSDEC with a list of grievances concerning operations at the site (Ref. 22, pp. 1 thru 5 of 5).

In June and July of 1985, the NCDH collected one soil from the south dry well and one effluent sample from the north dry well located inside the Star Carting building, and six water samples from dry wells located in the outside storage yard (Ref. 15, pp. 1 thru 2 of 2; Ref. 24, pp. 1 thru 16 of 16). These samples were taken after Star Carting had apparently pumped the contents of the indoor sump and dry wells (Ref. 23, p. 1 of 4). No background samples were collected during this sampling event. The data lacks the proper QA/QC procedures and data validation. Analytical results of samples taken from the inside dry wells indicated the presence of volatile organic compounds (VOCs) and metals, including trichloroethylene (180 ppb) and tetrachloroethylene (110 ppb) in the soil sample; and 1,2-dichloroethylene (2,800 ppb), trichloroethylene (2,300 ppb), tetrachloroethylene (180 ppb), benzene (6 ppb), toluene (120 ppb), ethylbenzene (14 ppb), xylene (120 ppb), dichlorobenzene (18 ppb), aluminum (5.4 ppm) cadmium (0.14 ppm), chromium (0.17 ppm), copper (1.16 ppm), iron (71 ppm) lead (3.5 ppm), manganese (1.01 ppm), and oil/grease (340 ppm) in the effluent sample (Ref. 24, pp. 1 thru 4 of 16). Analytical results of water samples from the outside dry wells also indicated the presence of toluene (7 ppb), aluminum (3.3 ppm), cadmium (0.033 ppm), chromium (0.48 ppm), iron (13.2 ppm), lead (0.40 ppm), and oil/grease (190 ppm) (Ref. 24, pp. 5 thru 16 of 16). There is no record of use of the pure form of these chemicals at the site. They were most likely deposited through a waste stream generated as a result of either the trash compaction or truck maintenance and washing activities.

In December of 1985, Star Carting independently collected eight soil and six effluent samples from the sump, dry wells, and sanitary cesspool located on-site. Background samples were not collected during this sampling event. The data also lacks the proper QA/QC information and data validation. Analytical results of four soil and two water samples collected from indoor sump (soil only), dry wells and cesspool revealed the presence of dichlorobenzene (18 ppb), 1,2-dichloroethylene (4,000 ppb), trichloroethylene (5,400 ppb), tetrachloroethylene (230 ppb), benzene (100 ppb), toluene (21,000 ppb), ethylbenzene (1,300 ppb), xylene (7,100 ppb), and cadmium (0.014 ppm) in soil samples; and toluene (140 ppb), ethylbenzene (5 ppb), xylene (240 ppb), barium (4.0 ppm), cadmium (0.72 ppm), chromium (9.0 ppm), copper (8.4 ppm), lead (9.0 ppm), and zinc (23.0 ppm) in effluent samples (Ref. 25, pp. 1 thru 8 of 20). Analytical results of the four soil and four water samples from the four storage yard dry wells also indicated the presence of ethylbenzene (55 ppb), toluene (140 ppb), and xylene (240 ppb) in soil samples; and arsenic (0.19 ppm), barium (4.6 ppm), cadmium (0.64 ppm), chromium (total) (1.8 ppm), copper (7.6 ppm), lead (13 ppm), mercury (0.045 ppm), selenium (0.025 ppm), and zinc (90 ppm) in effluent samples (Ref. 25, pp. 9 thru 20 of 20).

The NYSDEC asserted a CERCLA claim against Star Carting in March of 1988 and offered Star Carting the opportunity to undertake remedial investigations at the site (Ref. 26, p. 1 of 2). The NYSDEC requested that Star Carting perform all investigation related activities, evaluate alternative remedial programs, design a remedial program and perform all remedial work (Ref. 26, p. 2 of 2).

In August of 1988, Star Carting again collected eight soil and five water samples from the site sump, dry wells, and sanitary cesspool. Again, no background samples were collected and the

data lacks the proper QA/QC information and validation package. Analytical results of the four soil and one water samples collected from the indoor sump (soil only), dry wells (soil only) and cesspool revealed the presence 1,1,1-trichloroethane (10 ppb), trichloroethylene (5 ppb), tetrachloroethylene (50 ppb), toluene (75 ppb), xylene (130 ppb), arsenic (3.4 ppm), barium (13 ppm), cadmium (0.52 ppm), chromium (4.6 ppm) and lead (48 ppm) in soil samples; and toluene (6.0 ppb), ethylbenzene (3.0 ppb), and xylene (4 ppb) in the one effluent sample taken from the sanitary cesspool (Ref. 27, pp. 1 thru 9 of 22). Analytical results of four soil and four water samples from the outside dry wells also indicated the presence of 1,2-dichloroethene (36 ppb), chloroform (5 ppb), trichloroethylene (45 ppb), tetrachloroethylene (10 ppb), benzene (130 ppb), ethylbenzene (1,300 ppb), toluene (490 ppb), total xylene (7,000 ppb), arsenic (28.0 ppm), barium (69.0 ppm), cadmium (9.8 ppm), chromium (34.0 ppm), lead (840 ppm), mercury (0.393 ppm), selenium (1.1 ppm), and silver (1.2 ppm) in soil samples; and cadmium (0.037 ppm), lead (0.015 ppm), and silver (0.01 ppm) in water samples (Ref. 27, pp. 10 thru 22 of 22).

An Order on Consent was initiated by the NYDEC in 1986 and finalized in February of 1992 (Ref. 28, pp. 1 thru 19 of 19). During 1986, Star Carting pumped, cleaned, and sealed with concrete the sump and dry wells located inside the building with the approval of the Nassau Health Department (Ref. 8, p. 2 of 5). The sanitary cesspool was sealed in 1992 when the facility was connected to the county sewer system (Ref. 29, p. 1 of 1). The Order on Consent was duly executed on April 10, 1992 at which time Star Carting was placed on the NYSDEC Registry of Inactive Hazardous Waste Sites with a Classification Code of Class 2 (Ref. 30, p. 1 of 2). A Class 2 site is defined as a site where hazardous waste disposal is confirmed and which poses a significant threat to public health or the environment.

In April 1992 Star Carting contracted Donnelly Engineering, Inc. (Donnelly) to prepare a work plan for a Remedial Investigation/Feasibility Study. The RI/FS was approved by NYSDEC in 1994. Soil and groundwater investigations were initiated in 1995 and are ongoing. As part of these investigations seven groundwater monitoring wells, two upgradient (MW-1, MW-7) and five downgradient, were installed on the periphery of the site during 1995 (Ref. 7, p. 7 of 7). The two upgradient wells constitute background wells. The seven wells were installed to a depth of 49 to 50 feet below grade with screened intervals ranging between 38.5 and 49 feet below grade (Ref. 31, p. 1 of 1). Samples were collected from the seven monitoring wells during September 1995. Analysis of samples indicated the presence of 1,1-dichloroethene (2 ppb), trichloroethylene (2 ppb), benzene (2 ppb), chlorobenzene (2 ppb), toluene (2 ppb), bis(2-ethylhexyl)phthalate (2 ppb), methylene chloride (18 ppb), and unfiltered samples also indicated the presence of aluminum (73.7 ppm), arsenic (0.0481 ppm), barium (0.353 ppm), chromium (0.109 ppm), copper (0.142 ppm), iron (319 ppm) lead (0.157 ppm), mercury (0.00041 ppm), and zinc (0.4 ppm) (Ref. 32, pp. 1, 16, 17, 21, 23, 30, of 33). None of the volatile compounds were detected in downgradient wells except for methylene chloride and bis(2-ethylhexyl)phthalate.

Groundwater contamination with VOCs appears to be a regional problem in Nassau County. VOCs have been detected in several public groundwater supply wells in the 4-mile radius of the Star Carting site. Greater than 50 percent of the 105 wells within the 4-mile radius have detected levels of VOCs with levels in 27 of the 105 wells exceeding New York State limits for potable water (Ref. 40, pp. 3 thru 7 of 7; Ref. 41, pp. 4 and 5 of 5; Ref. 43, pp. 2 and 3 of 3; Ref. 44, p. 2 of 3; Ref. 45, pp. 3 thru 8 of 8; Ref. 47, pp. 4 and 5 of 5; Ref. 48, pp. 1 and 2 of 12; Ref.

54, pp. 2 and 3 of 3; Ref. 56, pp. 2 thru 14 of 14; Ref. 59, pp. 3 of 3). Additionally, results of a NCDH study conducted in 1986 suggested that a groundwater plume of VOCs emanating from a Garden City Park industrial area, located approximately 3/4 miles southeast of the Star Carting site, was horizontally and vertically migrating in a downgradient direction (Ref. 36, pp. 1 thru 12 of 12). It was further determined that this plume impacted 17 public groundwater supply wells; however, preliminary results of an industrial survey conducted with occupants of the Garden City Park industrial area, present during the time of the study, did not identify any major use of the contaminants of concern (Ref. 36, pp. 5 of 12).

Evaluation of Existing Information

Available information from the Final Preliminary Assessment prepared by Ebasco Services Incorporated in 1993 was used to conduct an initial evaluation of the Star Carting site. This report indicated that there was not sufficient information to fully evaluate the site.

Three sampling events for soil and water, and one sampling event for groundwater have been conducted at the site between 1985 and 1995 by either the NCDH, the NYSDEC, or Star Carting, as indicated in the site history section of this report. Analytical results of soil samples show a decrease in concentration of VOCs with time; therefore, the most recent soil sampling event (1988) was used for this site evaluation. There is no recorded sample depths for any of the soil sampling events; however, the bottom of the dry wells are approximately six feet below grade (Ref. 15, p. 1 of 2). Additionally, no background samples were collected during the soil sampling events, and the existing data lacks either the proper QA/QC information or data validation. Therefore, the 1988 analytical data was used for screening purposes. Analytical results of the 1995 groundwater indicated that no VOCs, with the exception of methylene chloride and bis(2-Ethylhexyl)phthalate, were detected in downgradient wells. The presence of detectable levels of VOCs in the background wells indicate the possibility of an off-site source. Site use of methylene chloride and bis(2-ethylhexyl)phthalate is not documented and the source of these compounds is unknown. Detected levels of metals are characteristic of the regional groundwater. The absence of detectable levels of VOCs in the downgradient samples indicate that a release to groundwater has not occurred.

Hazard Assessment

Additional and updated information collected and reviewed to further evaluate the need for CERCLA remedial action at the Star Carting site included nearby population data, groundwater population data, 4-mile radius population data, and wetland and sensitive environments information. Additionally, reports, memos, correspondence and data generated by either NCDH, NYSDEC, or Star Carting were also reviewed.

Source Description

As a result of refuse transfer operations conducted at the Star Carting site, an unknown amount of hazardous materials, most likely associated with a waste stream generated during loading and compaction of refuse from local municipalities, was released to a densifier sump and two dry wells located in the east garage of the Star Carting building. Ancillary activities of truck

maintenance and washing may have also resulted in the release of hazardous materials to four dry wells located in the outdoor storage yard.

Two sources were considered for the Star Carting hazard assessment: indoor subsurface contaminated soil (ISCS) associated with the densifier sump, the two dry wells and the sanitary cesspool; and outdoor subsurface contaminated soil (OSCS) associated with the four dry wells. The four indoor features which represent four separate sources were aggregated as one source since they all: could be classified as the same source type (subsurface soils), affected similar targets populations, had similar containment (unlined and sealed with concrete); contained substances with similar waste characteristic factor values; were in the same watershed and floodplain, overlaid the same aquifer systems. The densifier sump occupied an area of 212.8 square feet (Ref. 13, p. 1 of 1; Ref. 33, p. 1 of 2). The north and south dry wells pits were approximately four feet in diameter each occupying an area of approximately 12.56 square feet (Ref. 15, p. 1 of 2; Ref. 33, p. 1 of 2). Exact dimensions of the sanitary cesspool were unavailable so a minimum area of one square foot was used. The total of the area for ISCS source was calculated as the sum of the individual components and equaled 238.92 square feet (Ref. 33, p. 1 of 2). The following contaminants were detected in ISCS soils: 1,1,1-trichloroethane, trichloroethylene, tetrachloroethylene, toluene, xylene, arsenic, barium, cadmium, chromium and lead (Ref. 27, pp. 1 thru 8 of 22).

The four outdoor dry wells were also aggregated because they: were the same source type, affected similar target populations, had similar containment, contained substances with similar waste characteristic factor values; were in the same watershed and floodplain, overlaid the same aquifer systems. Each dry well pit was approximately four feet in diameter occupying approximately 12.56 square feet for a total aggregate area of 50.24 square feet (Ref. 4, pp. 6 and 14 of 31; Ref. 33, p. 2 of 2). The following were detected in OSCS soils: 1,2-dichloroethene, chloroform, trichloroethylene, tetrachloroethylene, benzene, ethylbenzene, toluene, xylene, arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver (Ref. 27, pp. 10 thru 17 of 22).

There is no documented use of pure benzene, toluene, ethylbenzene, or xylene at the site, either indoors in the east garage or outdoors in the storage yard. The presence of these compounds are attributed to the use of petroleum products associated with truck maintenance activities, and, therefore, they are not used in scoring the site pursuant to the CERCLA petroleum exclusion.

Groundwater Pathway

The Star Carting site is situated on soils classified as Urban Land. The Urban Land map unit is characterized by areas where at least 85 percent of the surface is covered with concrete, and other impervious building materials (Ref. 34, p. 3 and 4 of 4). The underlying soil is well-drained and altered by construction activities. Undisturbed areas of soil in the vicinity of the Star Carting site are mapped as the Riverhead Series, and consist of very deep, well-drained soils formed on glacial outwash deposits (Ref. 34, p. 3 and 4 of 4).

The Star Carting site is located in the Coastal Plain physiographic province (Ref. 34, p. 2 of 4). Nassau County is characterized by undulating or rolling topography in the north and a gently southward sloping plain in the south (Ref. 34, p. 2 of 4). Elevations in the county range from sea level in the south to approximately 340 feet near the northeastern Nassau County/Queens

County border (Ref. 34, p. 2 of 4). The higher elevations are a result of terminal moraine deposits (Ref. 34, p. 2 of 4). Geologically, the area within a 4-mile radius of the Star Carting site is characterized by consolidated bedrock of the Paleozoic and/or Precambrian age overlain by four unconsolidated geologic units (from top to bottom): Upper Pleistocene deposits, the Magothy Formation, an unnamed clay member of the Raritan Formation, and the Lloyd sand member of the Raritan Formation (Ref. 35, pp. 1 thru 4 of 4). These formations result in four distinct hydrogeological units: the Upper Glacial aquifer, the Magothy aquifer, the Raritan confining unit, and the Lloyd aquifer (Ref. 35, p. 3 of 4). The water table beneath the site is found at approximately 40 feet below the surface (Ref. 31, p. 1 of 1).

The Upper Glacial aquifer is characterized by outwash deposits of fine to very coarse quartzose sand, and pebble to boulder sized gravel (Ref. 35, p. 3 of 4). Within the vicinity of the site it varies from 50 to 400 feet in thickness (Ref. 35, p. 4 of 4). The Magothy formation is characterized by deposits of fine to medium sand, clayey in parts, interbedded with lenses and layers of coarse sand, and sandy and solid clay. Gravel is common in the basal zone (Ref. 35, p. 4 of 4). This formation varies from 400 to 650 feet in thickness in the vicinity of the site (Ref. 35, p. 4 of 4). The Raritan confining unit consists of solid and silty clay with a few lenses and layers of sand. Lignite and pyrite are common within the formation (Ref. 35, p. 3 of 4). The Raritan Confining Unit ranges between 150 and 175 feet in thickness throughout the area (Ref. 35, p. 4 of 4). The Lloyd aquifer is characterized by fine to coarse sand and gravel, commonly with a clayey matrix; lenses and layers of solid and silty clay; and local, thin layers of lignite (Ref. 35, p. 3 of 4). It ranges between 200 and 400 feet in the area of the site (Ref. 35, p. 4 of 4). The underlying bedrock is crystalline metamorphic and igneous rocks (Ref. 35, p. 3 of 4).

Groundwater flow in the vicinity of the Star Carting site is generally to the southwest (Ref. 36, pp. 1, 3, 10, 12 of 12). The Upper Glacial aquifer is moderately to highly permeable (Ref. 35, p. 3 of 4). It is recharged entirely by local precipitation and occurs under unconfined (water table) conditions (Ref. 37, p. 2 of 19). The Upper Glacial deposits absorb water and readily transmit it downward to the water table. Water is either transmitted downward to underlying formations, or discharged directly to the atmosphere (Ref. 37, p. 2 of 19). Layers within the Magothy aquifer are poorly to moderately permeable, although some is highly permeable, and is unconfined in the upper most parts (Ref. 35, p. 3 of 4). Groundwater percolating from the overlying Upper Glacial aquifer is the only water source into the Magothy aquifer (Ref. 37, p. 2 of 19). The Raritan confining unit is poorly to very poorly permeable and constitutes a confining layer for the underlying Lloyd aquifer (Ref. 35, p. 3 of 4). The Lloyd aquifer is poorly to moderately permeable (Ref. 35, p. 3 of 4).

Groundwater within four miles of the site is used for public water supply and is provided by the following water districts, municipalities or water companies: Albertson Water District, Carle Place Water District, Franklin Square Water District,, Inc. Village of Garden City, Garden City Park Water District, Town of Hempstead, Inc. Village of Hempstead, Long Island Water Corporation, Manhasset-Lakeville Water District, Inc. Village of Mineola, Inc. Village of Old Westbury, Roslyn Water District, West Hempstead-Hempstead Gardens Water District, and the Inc. Village of Williston Park. There are a total of 105 municipal, water district, or water company drinking water wells within the 4-mile radius of Star Carting for a total groundwater population of 414,312 distributed as follows: 0-¼ mile, 5,909; ¼-½ mile, 0; ½-1 mile, 3,500; 1-2 miles, 107,323; 2-3 miles, 104,286; 3-4 miles, 193,294 (Ref. 38, pp. 1 thru 4 of 4; Ref. 39,

pp. 1 thru 3 of 3; Ref. 40, p. 2 of 7; Ref. 41, p. 2 of 5; Ref. 42, p. 1 of 1; Ref. 44, pp. 2 and 3 of 3; Ref. 45, p. 2 of 8; Ref. 46, p. 1 of 1; Ref. 47, p. 1 of 1; Ref. 48, pp. 1 thru 12 of 12; Ref. 49, p. 1 of 1; Ref. 50, pp. 1 and 2 of 2; Ref. 51, p. 1 of 1; Ref. 52, p. 1 of 1; Ref. 53, p. 1 of 1; Ref. 54, p. 1 of 3; Ref. 55, p. 1 of 1; Ref. 56, pp. 1 and 2 of 14; Ref. 57, p. 1 of 1; Ref. 58, pp. 1 thru 3 of 3; Ref. 59, pp. 1 thru 3 of 3). The 1990 census data indicates that there are 582 people using private wells within four miles of the Star Carting site as follows: 0-¼ mile, 4; ¼-½ mile, 42; ½-1 mile, 30; 1-2 miles, 161; 2-3 miles, 143; 3-4 miles, 202 (Ref. 60, pp. 3 and 4 of 4). A portion of the population within the 4-mile radius, i.e., residents in Queens who are not supplied by Jamaica Water Supply Company, receive water from outside the 4-mile radius (Ref. 61, p. 1 of 1). The nearest known drinking water well is Jamaica Water Supply Company well No. 20, located approximately 1,100 feet north, northwest of ISCS (Ref. 38, p. 1 of 4). The Star Carting site lies above a New York state designated well protection area (Ref. 62, p. 2 of 2).

Surface Water Pathway

The nearest surface water body is an unnamed pond located approximately one and a quarter miles south of the Star Carting facility on the grounds of the Garden City Country Club (Ref. 63, p. 1 of 1). The nearest stream or river is the west branch of the Mill River. Its headwaters are located approximately 2.5 miles south of the Star Carting facility. The west branch is intermittent until south of Hall's Pond approximately 3.75 miles south of the site from which point on it becomes perennial (Ref. 63, p. 1 of 1). The site is located outside the 500-year floodplain (Ref. 64, pp. 1 thru 3 of 3). The 2-year, 24 hour rainfall in the site vicinity is approximately 3.25 inches (Ref. 65, p. 3 of 3). The only surface water intakes used for drinking water supply are located upgradient of the Star Carting site (Ref. 61, p. 1 of 1).

Surface drainage in the outdoor storage yard of the Star Carting facility discharges to either the NE, NW, or SE dry wells (Ref. 4, pp. 6 and 14 of 31). Drainage along 4th Street flows west to county storm drain located at the corner of 4th and Denton. The 4th Street storm line discharges to a storm main located under Denton Avenue. This storm main eventually discharges to Recharge Basin No. 232 located on Tanner Pond Road south of the Long Island Railroad right-of-way and north of Colonial Avenue approximately 0.3 mile south of the Star Carting site (Ref. 66, p. 1 of 1). There is no hazardous substance migration path from the Star Carting site to any surface water body, therefore, the surface water pathway was not evaluated.

Soil Exposure Pathway

Star Carting currently employs between six and seven people (Ref. 4, pp. 2 and 13 of 31). The nearest residence is approximately 38.5 feet east of the site (Ref. 4, pp. 7 and 14 of 31). The nearest school, Garden City Park School at Central Avenue and 3rd Street, is located approximately a ¼ mile to the east of the site (Ref. 4, pp. 8 and 15 of 31). There are no terrestrial sensitive environments located within a ¼ mile of the Star Carting site (Ref. 63, p. 1 of 1; Ref. 67, pp. 1 and 2 of 4; Ref. 68, pp. 1 thru 6 of 9; Ref. 69, p. 1 of 1). There are no exposed soils located on Star Carting site. Additionally, soil contamination has been detected at depths greater than two feet below the surface or in areas that are located inside the building and currently covered with concrete. The storage yard is fenced with access controlled by a padlocked gate yard (Ref. 4, pp. 5 and 14 of 31). Consequently, the soil pathways was not evaluated since there is a minimal threat of exposure via the soil pathway.

Air Pathway

No record of air sampling was discovered during the review of past site investigations. Additionally, detected soil contamination in the vicinity of the storage yard dry wells has occurred at depths greater than 2 feet below the surface, and in areas covered by concrete. There are 355,267 individuals living within the 4-mile radius of the Star Carting site as follows: 0-¼ mile, 1,092; ¼-½ mile, 4,570; ½-1 mile, 18,459; 1-2 miles, 71,910; 2-3 miles, 111,651; 3-4 miles, 147,584 (Ref. 60 pp. 3 and 4 of 4). There are a total of 54 sensitive environments within the 4-mile radius of the site are as follows: 0-¼ mile, 0; ¼-½ mile, 1 (wetland); ½-1 mile, 3 (wetlands); 1-2 miles, 6 (two wetlands, two habitats for federally listed endangered species, two habitats for state listed threatened species); 2-3 miles, 19 (16 wetlands, two habitats for state listed threatened species, one unique biotic community); 3-4 miles, 25 (22 wetlands, one habitat for a federally listed threatened species, one habitat for a state listed threatened species, one unique biotic community) (Ref. 67, pp. 1 and 2 of 4; Ref. 68, pp. 1 thru 6 of 9; Ref. 63, p. 1 of 1; Ref. 69, p. 1 of 1). There are approximately 183 acres of wetlands within the 4-mile target limit distance of the site, as follows: 0-¼ mile, 0; ¼-½ mile, 3; ½-1 mile, 10; 1-2 miles, 6; 2-3 miles, 68; 3-4 miles, 96 (Ref. 63, p. 1 of 1; Ref. 69, p. 1 of 1). A release to air is not likely, because contamination is contained in the soil, which are underneath concrete.

Summary

Existing documentation and newly collected information was not sufficient to fully characterize the site. The primary pathway of concern is the groundwater pathway. Soil sampling results indicate a potential to release to groundwater from subsurface soils, however, results of groundwater sampling in the vicinity of the site indicate that a release to groundwater has not occurred. Groundwater is used for drinking water supply and serves 414,312 people within the groundwater pathway TDL. There is no surface water pathway for the site. There are no areas of observed contamination for the surface soil pathway identified on the site. There are approximately 6 workers currently on-site. There are no areas of observed contamination within the property boundaries of any residence, school, day-care center, or terrestrial sensitive environment. There is no evidence of a release to the air pathway.

Submitted by:

Joseph Fischl
Task Leader
Ebasco Services Incorporated

Approved by:

for Dev Sachdev, Ph.D., P.E.
ARCS II Program Manager
Ebasco Services Incorporated

Reviewed by:

Edgar T. Aguado
Site Manager
Ebasco Services Incorporated

REFERENCES

1. U.S. Environmental Protection Agency, *Hazard Ranking System (HRS), Final Rule*, 40 CRF 300, Vol. 55, No. 241, December 14, 1990.

2. U.S. Environmental Protection Agency, *Superfund Chemical Data Matrix (SCDM)*, EPA 9360.4-18, July 1994, as incorporated in the *PREscore Software*, Version 3.0, Publication 9450.2200, August 1994.

3. USGS 7.5 Minute Topographic Map, Lynbrook, New York Quadrangle., 1969.

4. Ebasco Services Inc., Field Logbook, Star Carting Company, SIP Site Reconnaissance, December 6, 1995.

5. Ebasco Services Inc., Worksheet for Calculation Area of Star Carting Company, Garden City Park, New York, Section 9, Block 233, Lots 142, 143, 144, & 156.

6. Resource Applications, Inc., Field Logbook, Star Carting Company PA Site Reconnaissance, January 22, 1993.

7. Donnelly Engineering, 1992, Draft #2, Remedial Investigation/Feasibility Study, Prepared for Star Carting Company, December 31, 1992.

8. New York State Department of Environmental Conservation (NYSDEC), Fact Sheet on the Star Carting Company Site, Garden City Park, New York, Site Code # 130039, February 1995.

9. NYSDEC, Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Report, Location Code: 2, Region: 1, Site Code: 130039, undated.

10. NYSDEC, Application for Approval to Operate a Solid Waste Management Facility, for Hillside Ash and Rubbish Removal, Inc. (Star Carting), prepared by Joseph Michael Bonsera, Vice President, February 3, 1978.

11. Letter from Paul Lappano, Assistant Sanitary Engineer, NYSDEC, to Joseph Bonsera, Vice President, Hillside Ash and Rubbish (SIC), March 3, 1978.

12. NYSDEC, Notice of Incomplete Application, to Josept (SIC) Michael Bonsera, February 16, 1984.

13. Drawing No. C-9783-1, Issue 3, *Lively Co. Transfer Station for: Hillside Ash Rubbish Removal - Ggn. City Pk, NY*, prepared by Elbert Lively & Co., Inc., Bloomfield, New Jersey, dated June 22, 1979.

REFERENCES (Cont'd)

14. NYSDEC, Application for Approval to Operate a Solid Waste Management Facility, (facility name blank), prepared by Joseph Michael Bonsera, November 11, 1983.

15. Memorandum from Bob Becherer, NYSDEC, to Ted Sanford, NYSDEC, June 28, 1985.

16. Letter from Joseph Michael Bonsera, Vice President, Star Carting Company, to NYSDEC, Division of Solid Waste, March 9, 1984.

17. Letter from Joan B. Scherb, Regional Attorney, NYSDEC, to Hillside Ash and Rubbish Removal, Inc., October, 28, 1983.

18. Decision of the Commissioner, State of New York, Department of Environmental Conservation, In the Matter of the Application for a Permit Pursuant to Part 360 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York to ratify past acts in having modified a solid waste transfer station by Joseph Michael Bonsera, d/b/a Bonsera, Inc., and Star Carting Company, 94 Denton Avenue, Garden City Park, NY 11040, Solid Waste Application, No. 10-83-1634, April 24, 1986.

19 Decision & Order & Judgment in the Matter of Joseph Michael Bonsera, et al., petitioners-respondents, v NYSDEC, et al., respondents-appellants, Argued - March 24, 1987.

20. Motion to appeal in the Matter of Joseph Michael Bonsera, et al., Appellants vs. NYSDEC, et al., Respondents, Dated July 9, 1987.

21. Memorandum from Marvin B. Fleisher, Nassau County Department of Health, to Files, November 5, 1984.

22. Letter from Kenneth William Lang et al., Garden City Park Residents, to Harold Berger, Regional Director, NYSDEC, November 9, 1984.

23. Letter from Susan G. King, Bureau of Land Resources Management, Nassau County Department of Health, to Robert Becherer, NYSDEC, with attachments, June 24, 1985.

24. Nassau County Department of Health, Chemical Analysis Results from Soil and Water Samples collected by the Nassau County Department of Health from the Star Carting Site collected on June 25, 1985, and July 22, 1985.

25 Ecotest Laboratories, Inc., Chemical Analysis Results from Soil and Water Samples collected by Star Carting from the Star Carting site on November 12, 1985.

26. Letter from Louis A. Evans, Associate Attorney, NYSDEC, to Star Carting Company, March 2, 1988.

REFERENCES (Cont'd)

27. Ecotest Laboratories, Inc., Chemical Analysis Results from Soil and Water Samples collected by Star Carting from the Star Carting site in August, 1988.

28. Letter from Louis A. Oliva, Senior Attorney, NYSDEC, to Star Carting Company, February 26, 1992.

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30. Statement, NYSDEC, Star Carting Company, Inactive Hazardous Waste Disposal Site, #1-30-039, June 5, 1995.

31. Record of Telephone Conversation between Jamie Ascher, Project Manager, Division of Hazardous Waste Remediation, NYSDEC, and Joseph Fischl, Ebasco Services, Inc., January 23, 1996.

32. H2M Labs, Inc., Chemical Analysis Results from Groundwater Samples collected by Star Carting from the Star Carting site Monitoring Wells in September, 1995.

33. Ebasco Services Inc., Worksheet for Calculation of Source Areas for the Star Carting site.

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36. Rhodes, J., and B. Schneider, NCDH/NCDPW Cooperative Agreement Project, Garden City Park Groundwater Quality Study, Preliminary Report, Nassau County Department of Health, April 28, 1993.

37. New York State Department of Health, *Underground Waters of Nassau County, Recommended Classifications and Assignment of Standards of Quality and Purity for Designated Waters of New York State*, Survey Report No. 62, May 15, 1964.

38. Four-mile Radius Vicinity Map for Star Carting Company Site adapted from the U.S. Department of Interior, Geological Survey, 7.5 Minute Series Quadrangles: Lynbrook, NY, 1969; Sea Cliff, NY, 1968, revised, 1979; Freeport, NY, 1969, revised 1979; Hicksville, NY, 1967, revised, 1979.

39. Ebasco Services Inc., Spreadsheet Calculations for Groundwater Drinking Population.

REFERENCES (Cont'd)

40. Facsimile from Chris Carroll, Albertson Water District, to Joseph Fischl, Ebasco Services, Inc., December 11, 1995.

41. Facsimile from Tim Doyle, Carle Place Water District, to Joseph Fischl, Ebasco Services, Inc., October 30, 1995.

42. Record of Telephone Conversation between Lenny Falco, Superintendent, Franklin Square Water District, and Joseph Fischl, Ebasco Services, Inc., September 28, 1995.

43. Facsimile from Lenny Falco, Superintendent, Franklin Square Water District, to Joseph Fischl, Ebasco Services, Inc., September 28, 1995.

44. Facsimile from Frank Koch, Inc. Village of Garden City, to Joseph Fischl, Ebasco Services, Inc., December 7, 1995.

45. Letter from Richard Passariello, Garden City Park Water District, to Joseph Fischl, Ebasco Services, Inc., November 17, 1995.

46. Record of Telephone Conversation between Harold Morgan, Superintendent Town of Hempstead Water Department, and Joseph Fischl, Ebasco Services, Inc., November 3, 1995.

47. Response from Joseph Simone, Water Plant Supervisor, Inc. Village of Hempstead, to Joseph Fischl, Ebasco Services, Inc., November 13, 1995.

48. Letter from William A. Yulinsky, Project Manager, Jamaica Water Supply Company, to Joseph Fischl, Ebasco Services, Inc., October 20, 1995.

49. Record of Telephone Conversation between William A. Yulinsky, Project Manager, Jamaica Water Supply Company, and Joseph Fischl, Ebasco Services, Inc., November 13, 1995.

50. Letter from Thomas V. Whiteside, Vice President and Manager - Production, Long Island Water Corporation, to Joseph Fischl, Ebasco Services, Inc., October 9, 1995.

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52. Letter from Tom Casey, Henderson & Casey, to Joseph Fischl, Ebasco Services, Inc., December 11, 1995.

53. Record of Telephone Conversation between Tom Casey, Henderson & Casey, and Joseph Fischl, Ebasco Services, Inc., December 21, 1995.

REFERENCES (Cont'd)

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55. Record of Telephone Conversation between John Ingram, Superintendent, Inc. Village of Old Westbury Department of Public Works, and Joseph Fischl, Ebasco Services, Inc., December 18, 1995.

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REFERENCES (Cont'd)

67. Letter from Mark W. Clough, acting for Sherry W. Morgan, Field Supervisor, United States Fish and Wildlife Services, to Joseph Fischl, Ebasco Services, Inc., September 7, 1995.

68. Letter from Information Services, New York, Natural Heritage Program, NYSDEC, to Joseph Fischl, Ebasco Services, Inc., August 14, 1995.

69. Ebasco Services, Inc. Worksheet for Calculation of Wetland Acreage.

70. Ebasco Services, Inc. Worksheets for Calculation of Groundwater Population.

REFERENCE 1

Reference 1
p. 1 of 1

federal register

Friday
December 14, 1990

Part II

Environmental Protection Agency

40 CFR Part 300
Hazard Ranking System; Final Rule

Recycled Paper

REFERENCE 2

Reference 2
p. 1 of 1

United States
Environmental Protection
Agency

Solid Waste And
Emergency Response
(OS-240)

9360.4-18
EPA ~~9345.1-49~~
~~November 1991~~
July 1994

EPA

Superfund Chemical Data Matrix

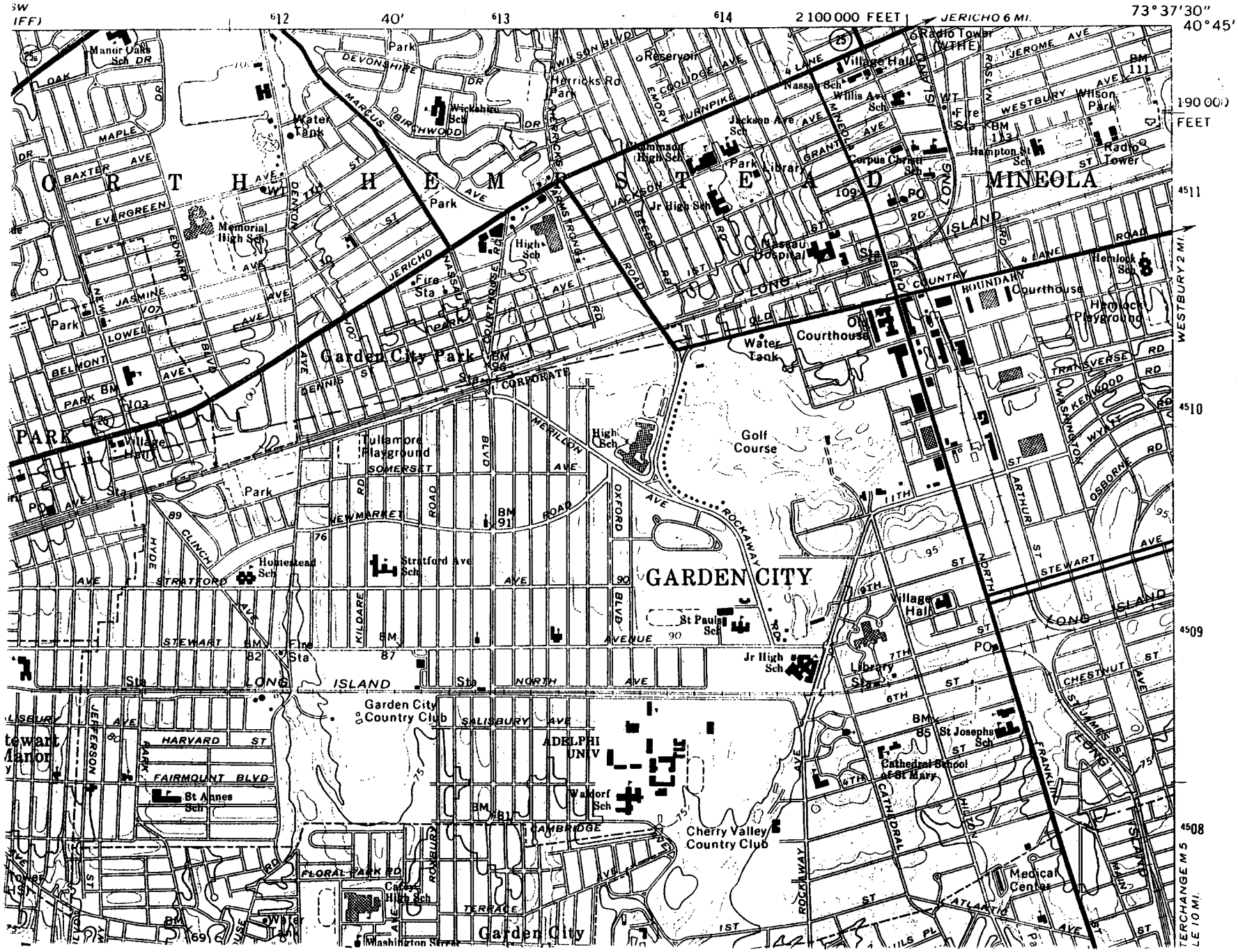
Printed on Recycled Paper

REFERENCE 3

NEW YORK
TRANSPORTATION

LYNBROOK QUADRANGLE
NEW YORK
7.5 MINUTE SERIES (TOPOGRAPHIC)

62651 SE
(HICKSVILLE)



Reference 3
Page 1 of 1

REFERENCE 4

Projects (continued)

Star Carting (1)
Dec 6, 1995
J. Fischl
E. Aguado

Arrived at 10:00 AM & meet with Mr. Joseph Bonsera.

Started recon. with an interview with Mr Bonsera regarding site history & operations.

Mr. Bonsera stated that from 1980 Hillside Ash & ~~[illegible]~~ Rubbish Removal Inc. operated the Hillside Ash & Rubbish Removal Co at the 94 Benton Ave Site. On 1980 Hillside Ash & Rubbish Removal Inc. was sold to the Pastoris. by Bonsera Inc. D/B/A Star Carting

Star Coating
Dec 6, 1995 (2)
J. Fischl
E. Aguado

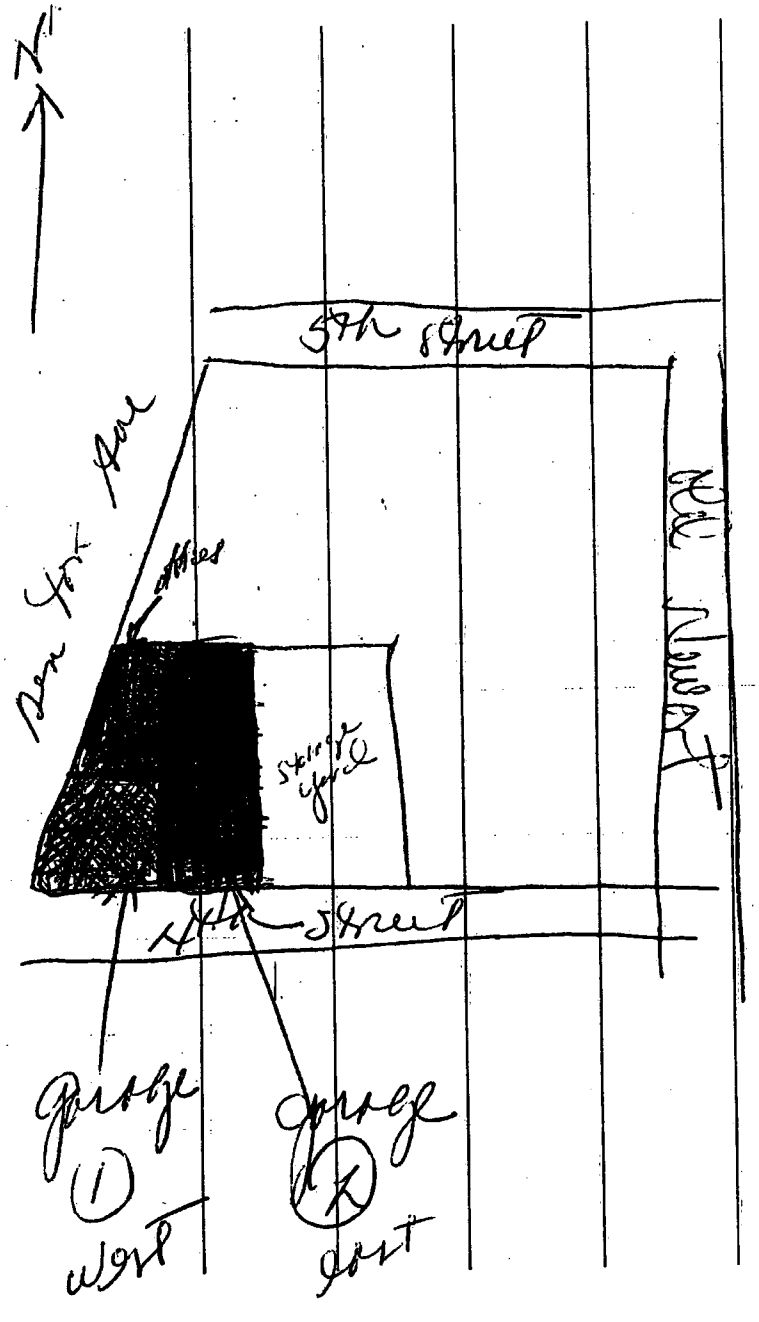
Mr. Monsera stated that from 1930-85 the 94 Benton Ave. facility was leased to Hillside Ash & Rubbish Removal Conc. when the site was used as a transfer station.

Star Coating is currently a roll off contractor & the facility is used for truck storage & maintenance. Star Coating currently employees AVE 6-7 people according to Mr. Monsera.

At approximately 10:30 started the site walk over. Photographs were taken between 10:30 and 11:35.

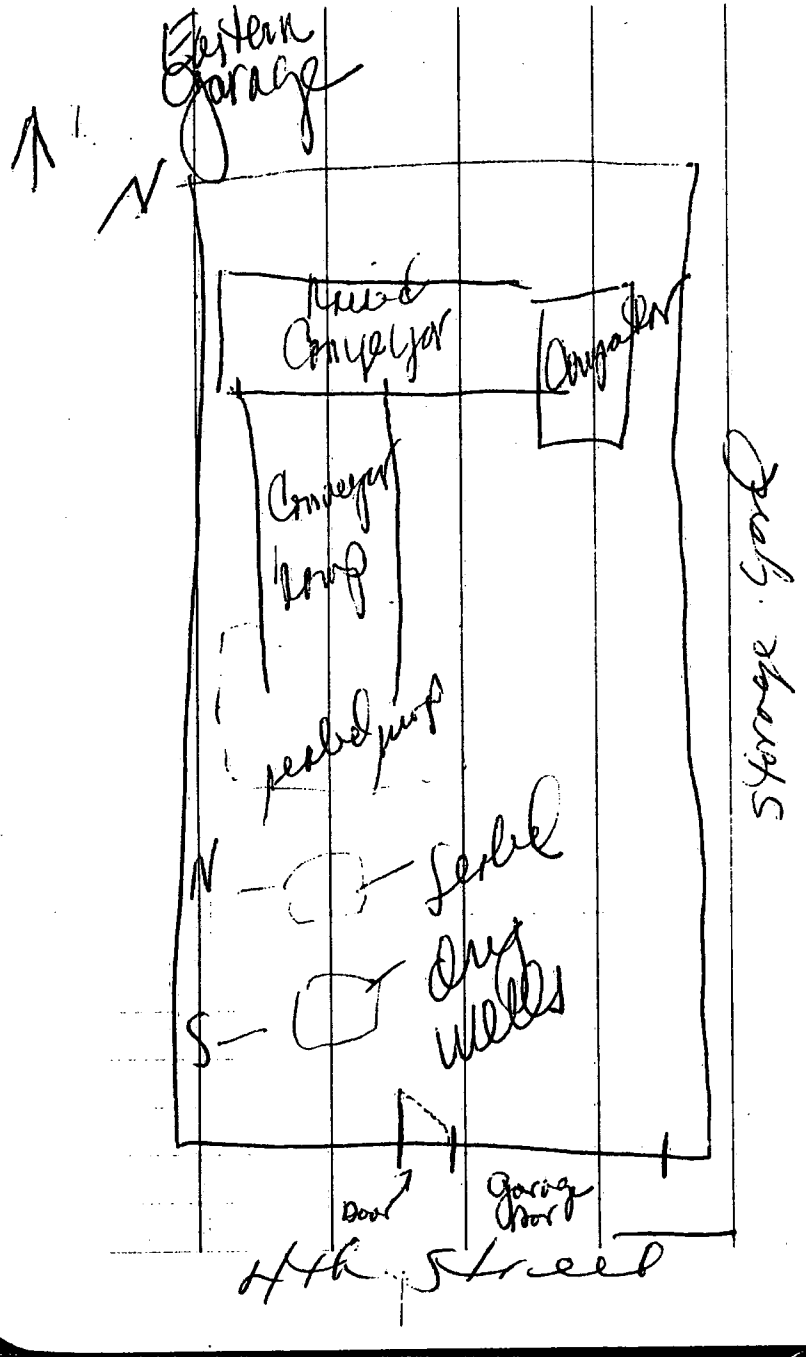
Star Cartony
Dec. 6, 1995
J. Fiskal
E. Aguado

(3)



The site consists of a brick building and storage yard. The building has two garages + an office suite. The former conveyor + compactor is located in the eastern most garage + is still present but inactive. Both garages are now used for truck maintenance.

The storage yard is used for truck storage. Various equipment + parts are also stored in the yard.



Star Carting
J. Nichol
E. Aguado

(4)

The eastern garage has a concrete floor. The sump associated with the conveyor ramp & the two dry wells have been sealed with concrete. A truck in the process of being repaired was parked over the location of the sump & northern most dry well.

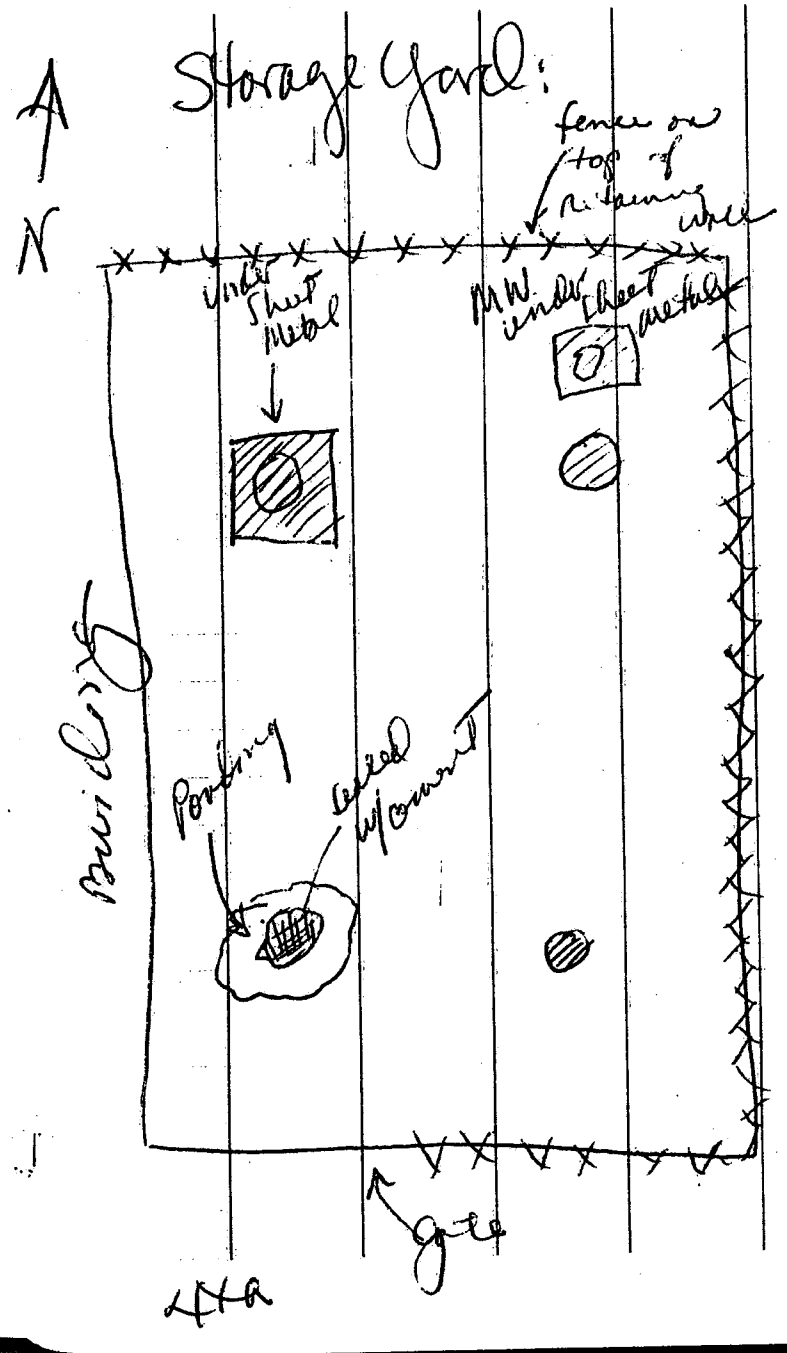
The filled southern dry well was observed and occupied an area approximately 4 feet square.

Mr. Bonsera stated that the sump & dry wells were sealed in 1982.

Star Cortez
Dec 6, 1995
J. Fitzhal
E. Aguado

(5)

Storage Yard:



The storage yard abutts the building. It is surround by a chain link fence on the N, E, & So sides which sits atop an app 4 foot retaining wall.

The storage yard is paved with concrete. There are four dry wells. The SW one has been capped w/ concrete + was ponded w/ ~ 2" of water

The NW dry well had a piece of sheet metal on top + had leaves + debris surrounding it

The NE & SE had a

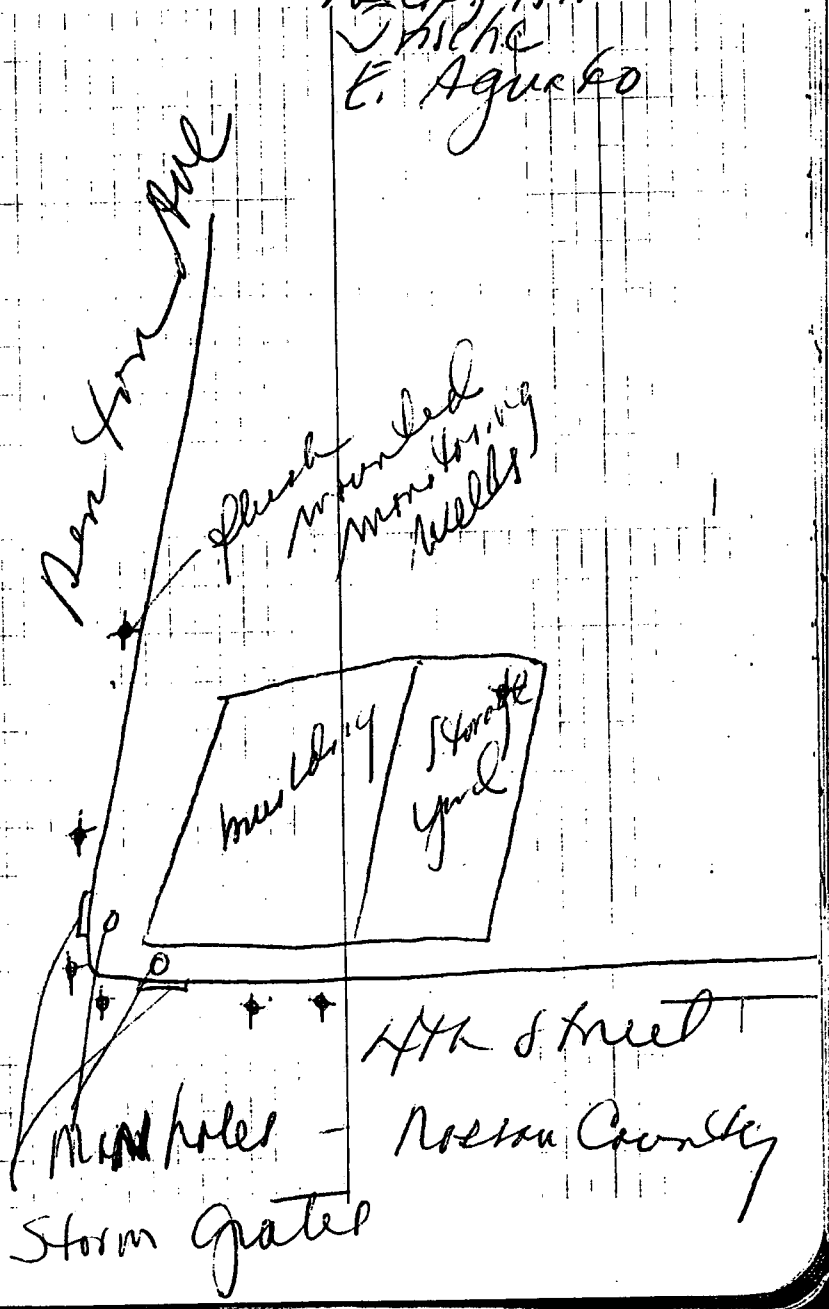
Star Carling
Dec 6, 1995
Jische
E. Aguado

(6)

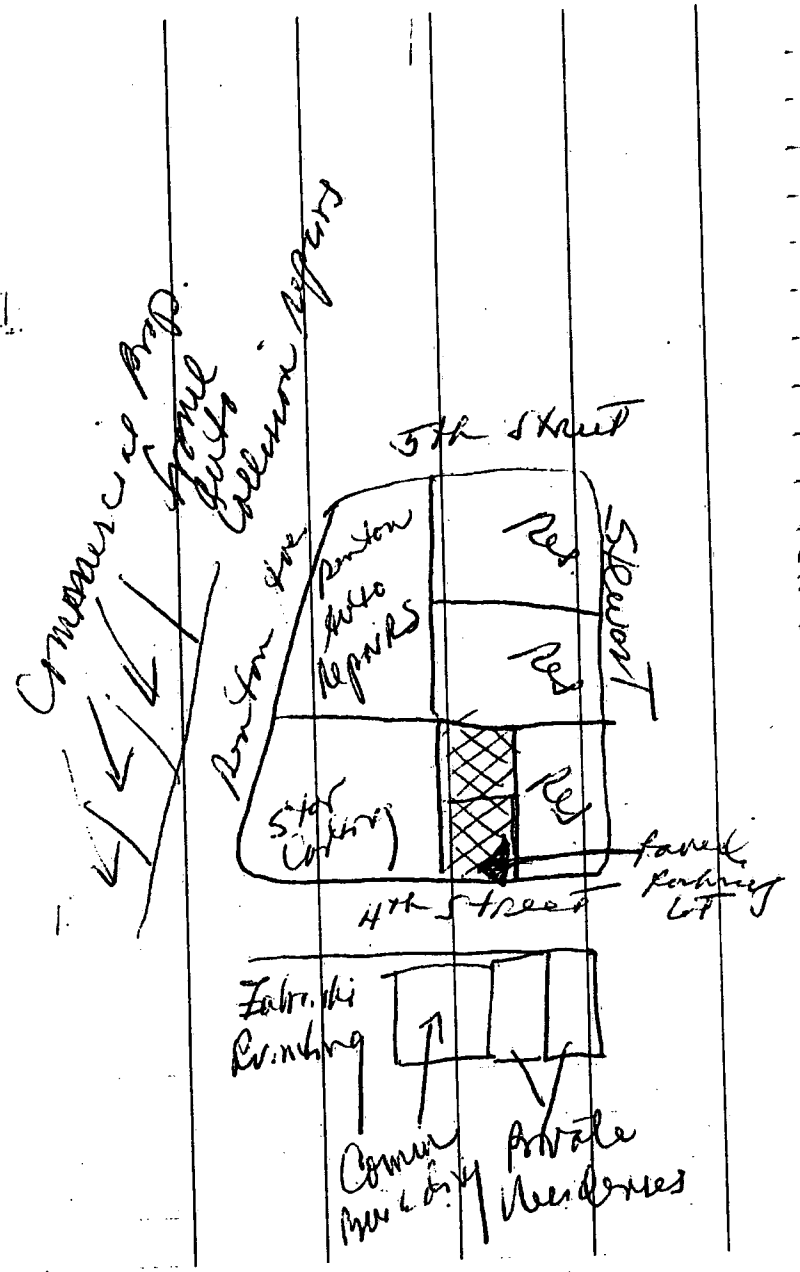
an approx. 2 foot diameter Iron grate and 2 foot diameter pit. There were oil stains located throughout the storage yard

The surface drainage in the storage yard drained to either the NW SE or NE dry well. There was surface ponding associated with the sealed SW dry well.

There were two Nassau County storm drains associated manholes located near the intersection of Benton Ave & 4th St.



Star Carting (7)
Dec 6, 1995
C. Fishel
E. Aguado



Star Carting is located in a light industry residential section of Garden City Park

There are commercial properties across Renton to the west. An auto repair business is adjacent to the site on the North ~~and~~ Commercial properties across 4th Street to the south. A private residence ~~is~~ located adj to the east of the Star Carting ~~stight~~ site. The residence is located approximately 38.5 feet (14 paces x 2.75 ft/pace) from the eastern boundary of the site. This is the nearest private residence

Star Crossing
Dec 6 1995 (8)
J. Kohl, E Aguado

A school is located at the end of 4th Street which dead ends onto a lawn area adjacent to the school.
(Garden City park School Central Ave + 3rd)

No surface water ~~[illegible]~~ bodies were observed within the immediate vicinity of the site

Star Corting
Dec. 6, 1995 (9)
J. Fischl
A. Kogando

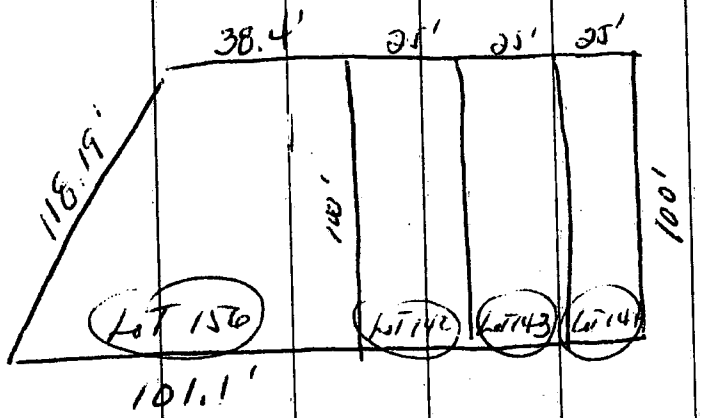
As the site is either paved or occupied by the single building there was no vegetation on site.

Observed all 7 monitoring wells installed by Bonelly. All are flush mounted. 3 are located in the street along Benton Ave. 3 are located in the street along 4th St and one is located in the NE corner of the storage yard.

Star Cutting
Sec. 6, 1995 (10)
J. Fischl
A. Eguado.

Nassau Co Tax Map

Section 9
Block 233



Reviewed Tax maps & Deeds at Nassau Co Tax Office.

Only record for Section 9, Block 233, LOT 156 was a deed of sale from Peters to Albertson in 1924 (LOT referred to as "I")

Record of sale for Section 9 Block 233,

Star Cartney (16) of
Dec 6, 1995
J. Fischl
E. Aguado

Lots 142, 143, & 144
from Ed / Ruth Bond
to Susan Bonsera
in 1969

& for Sect. 9, Block 233, Lot 14
from Susan Bonsera
to Susan Bonsera et al

Photograph 1 - Former conveyor/computer system located in East Garage (North view)
Photograph 2 - Interior of East Garage (West view)
Photograph 3 - Interior of East Garage (North view)
Photograph 4 - Interior of West Garage (West view)
Photograph 5 - Interior of West Garage (North view)
Photograph 6 - Western half of storage yard (North view)
Photograph 7 - Eastern half of storage yard (North view)
Photograph 8 - Eastern half of storage yard (northeast view)
Photograph 9 - Southeast dry well (northeast view)

Star Coating (12)
Dec 6 1991
J. Fischel
AE Aguado

Photograph 10 North side of Star Coating Building Gasoline Pumps are on adjacent property (southeast view)
Photograph 11 West side of Star Coating Building (southeast view)
Photograph 12 South side of Star Coating Building (~~northeast~~ view)
Photograph 13 Southwest corner of Star Coating Building (northeast view)
Photograph 14 Star Coating Bldg and Storage Yard (northwest view)
Photograph 15 Star Coating Bldg and Storage Yard (northwest view)

TRANSCRIPT OF STAR CARTING (CERCLIS NO. NYD064726938) LOG BOOK
ARCS II PROGRAM - EPA CONTRACT NO. 68-W8-0110 WORK ASSIGNMENT NO 076-2JZZ

Star Carting Page 1
Dec. 6, 1995
J. Fischl
E. Aquado

(Starts on right side of page)

Arrived at 10:00 & meet with Mr. Joseph Bonsera.

Started Reconn. with an interview with Mr. Bonsera regarding site history & operations.

Mr Bonsera stated that from 1938 - 1980 Hillside Ash and Rubbish Removal Inc. operated the Hillside Ash & Rubbish Removal Co. at the 94 Denton Ave. site. In 1980 Hillside Ash & Rubbish removal Inc was sold to the Pastores by Bonsera Inc. D/B/A Star Carting

Star Carting Page 2
Dec. 6, 1995
J. Fischl
E. Aquado

Mr. Bonsera stated that from 1980-85 the 94 Denton Ave. facility was leased to Hillside Ash & Rubbish Removal Inc. when the site was used as a transfer station.

Star Carting is currently a Roll Off Contractor & the facility is used for truck storage & maintenance. Star Carting currently employees ave. of 6-7 people according to Mr. Bonsera.

At approximately 10:30 started the with walk over. Photographs were taken between 10:30 and 11:35.

Star Carting Page 3
Dec. 6, 1995
J. Fischl
E. Aquado

(Left side of page contains a hand drawing depicting site location)

The site consists of a brick building and storage yard. The building has two garages and an office suite. The former conveyor and compactor is located in the eastern most garage + is still present but inactive. Both garages are now used for truck maintenance.

The storage yard is used for truck storage. Various equipment + parts are also stored in the yard.

Star Carting Page 4
Dec. 6, 1995
J. Fischl
E. Aquado

(Left side of page contains a hand drawing depicting layout of eastern garage)

The eastern garage has a concrete floor. The sump associated with the conveyor ramp + the two dry wells have been sealed with concrete. A truck in ht process of being repaired was parked over the location of the sump + northern most dry well.

The filled southern dry well was observed and occupied an area approximately 4 feet square.

Mr. Bonsera stated that the sump + dry wells were sealed ~1982.

TRANSCRIPT OF STAR CARTING (CERCLIS NO. NYD064726938) LOG BOOK
ARCS II PROGRAM - EPA CONTRACT NO. 68-W8-0110 WORK ASSIGNMENT NO 076-2JZZ

Star Carting Page 5
Dec. 6, 1995
J. Fischl
E. Aquado

(Left side of page contains hand drawing depicting layout of storage yard)

The storage yard abuts the building + is surrounded by a chain link fence on the N, E, & S sides which sits atop an app. 4 foot hi retaining wall.

The storage yard is paved with concrete. There are four dry wells. The SW one has been capped w/concrete + was ponded w/ ~ 2" of water.

The NW dry well had a piece of sheet metal on top + had leaves + debris surrounding it.

The NE & SE had a

Star Carting Page 6
Dec. 6, 1995
J. Fischl
E. Aquado

an approx. 2 foot diameter iron grate and 4 foot diameter pit. There were oil stains located throughout the storage yard.

The surface drainage in the storage yard drained to either the NW, SW, or NE dry well. There was surface ponding associated with the sealed SW dry well.

There were two Nassau County Storm drains + associated man holes located near the intersection of Denton Ave. + 4th St.

(Right side of page contains a hand drawing depicting location of Nassau County man holes and storm drains.)

Star Carting Page 7
Dec. 6, 1995
J. Fischl
E. Aquado

(Left side of page contains a hand drawing depicting surrounding properties.)

Star Carting is located in a light industry/residential section of Garden City Park.

There are commercial properties across Denton to the west. An auto repair business is adjacent to the site on the North. Commercial properties across 4th to the north. A private residence is located adj. to the east of the Star Carting site. The residence is located approximately 38.5 feet (14 paces x 2.75 ft/pace) from the eastern boundary of the site. This is the nearest private residence.

TRANSCRIPT OF STAR CARTING (CERCLIS NO. NYD064726938) LOG BOOK
ARCS II PROGRAM - EPA CONTRACT NO. 68-W8-0110 WORK ASSIGNMENT NO 076-2JZZ

Star Carting Page 8
Dec. 6, 1995
J. Fischl
E. Aquado

(Left side contains a hand drawing depicting location of local school in proximity to site)

A school is located at the end of 4th Street which dead ends onto a lawn area adjacent to the school. (Garden City Park School Central Ave. +3 St.).

No surface water bodies were observed within the immediate vicinity of the site.

Star Carting Page 9
Dec. 6, 1995
J. Fischl
E. Aquado

As the site is either paved or occupied by the single building, there was no vegetation on site.

Observed all 7 monitoring wells installed by Donelly. All are flushed mounted. 3 are located in the street along Denton Ave, 3 are located in the street along 4th street and one is located in the NE corner of the storage yard.

Star Carting Page 10
Dec. 6, 1995
J. Fischl
E. Aquado

(Left side of page contains a hand drawing depicting a copy of the Nassau Co. Tax Map for Section 9, Block 233)

Reviewed tax maps & deeds at Nassau Co. Tax Office.

Only record for section 9, Block 233, Lot 156 was a deed of sale from Peters to Albertson in 1924 (Lot referred to as "I")

Record of sale for Section 9 Block 233,

TRANSCRIPT OF STAR CARTING (CERCLIS NO. NYD064726938) LOG BOOK
ARCS II PROGRAM - EPA CONTRACT NO. 68-W8-0110 WORK ASSIGNMENT NO 076-2JZZ

Star Carting Page 11
Dec. 6, 1995
J. Fischl
E. Aquado

Lots 142, 143, & 144 from Ed/Ruth Bonsera to Susan Bonsera in 1969 & for Sect. 9, Block 233, Lot 1 from Susan Bonsera to Susan Bonsera et al.

Photograph 1	Former conveyor/compactor system located in east garage (north view).
Photograph 2	Interior of east garage (west view).
Photograph 3	Interior of east garage (north view).
Photograph 4	Interior of west garage (west view)
Photograph 5	Interior of west garage (north view)
Photograph 6	Western half of storage yard (north view).
Photograph 7	Eastern half of storage yard (north view).
Photograph 8	Eastern half of storage yard (northeast view).
Photograph 9	Southeast dry well (northeast view).

Star Carting Page 12
Dec. 6, 1995
J. Fischl
E. Aquado

Photograph 10	North side of Star Carting Building. Gasoline pumps are on adjacent property (southeast view).
Photograph 11	West side of Star Carting Building.(southeast view).
Photograph 12	South side of Star Carting Building (east view).
Photograph 13	Southwest corner of Star Carting Building (northeast view).
Photograph 14	Star Carting Bldg and Storage Yard (northwest view).
Photograph 15	Star Carting Bldg and Storage Yard (northwest view).

Photograph #: 1
Site Name: Star Carting Company
Location: Garden City Park, New York
Photographer: Edgar Aguado
Date and Time: December 6, 1995, between 10:30 and 11:35 A.M.
Description: Former conveyor/compactor system located in east garage (north view).

Photograph #:	2
Site Name:	Star Carting Company
Location:	Garden City Park, New York
Photographer:	Edgar Aguado
Date and Time:	December 6, 1995, between 10:30 and 11:35 A.M.
Description:	Interior of east garage (west view).

Photograph #: 3
Site Name: Star Carting Company
Location: Garden City Park, New York
Photographer: Edgar Aguado
Date and Time: December 6, 1995, between 10:30 and 11:35 A.M.
Description: Interior of east garage (north view).

Photograph #:	4
Site Name:	Star Carting Company
Location:	Garden City Park, New York
Photographer:	Edgar Aguado
Date and Time:	December 6, 1995, between 10:30 and 11:35 A.M.
Description:	Interior of west garage (west view)

Photograph #:	5
Site Name:	Star Carting Company
Location:	Garden City Park, New York
Photographer:	Edgar Aguado
Date and Time:	December 6, 1995, between 10:30 and 11:35 A.M.
Description:	Interior of west garage (north view)

Photograph #: 6
Site Name: Star Carting Company
Location: Garden City Park, New York
Photographer: Edgar Aguado
Date and Time: December 6, 1995, between 10:30 and 11:35 A.M.
Description: Western half of storage yard (north view).

Photograph #: 7
Site Name: Star Carting Company
Location: Garden City Park, New York
Photographer: Edgar Aguado
Date and Time: December 6, 1995, between 10:30 and 11:35 A.M.
Description: Eastern half of storage yard (north view).

Photograph #:	8
Site Name:	Star Carting Company
Location:	Garden City Park, New York
Photographer:	Edgar Aguado
Date and Time:	December 6, 1995, between 10:30 and 11:35 A.M.
Description:	Eastern half of storage yard (northeast view).

Photograph #:	9
Site Name:	Star Carting Company
Location:	Garden City Park, New York
Photographer:	Edgar Aguado
Date and Time:	December 6, 1995, between 10:30 and 11:35 A.M.
Description:	Southeast drywell (northeast view).

Photograph #: 11
Site Name: Star Carting Company
Location: Garden City Park, New York
Photographer: Edgar Aguado
Date and Time: December 6, 1995, between 10:30 and 11:35 A.M.
Description: West side of Star Carting Building.(southeast view).

Photograph #: 12
Site Name: Star Carting Company
Location: Garden City Park, New York
Photographer: Edgar Aguado
Date and Time: December 6, 1995, between 10:30 and 11:35 A.M.
Description: South side of Star Carting Building (east view).

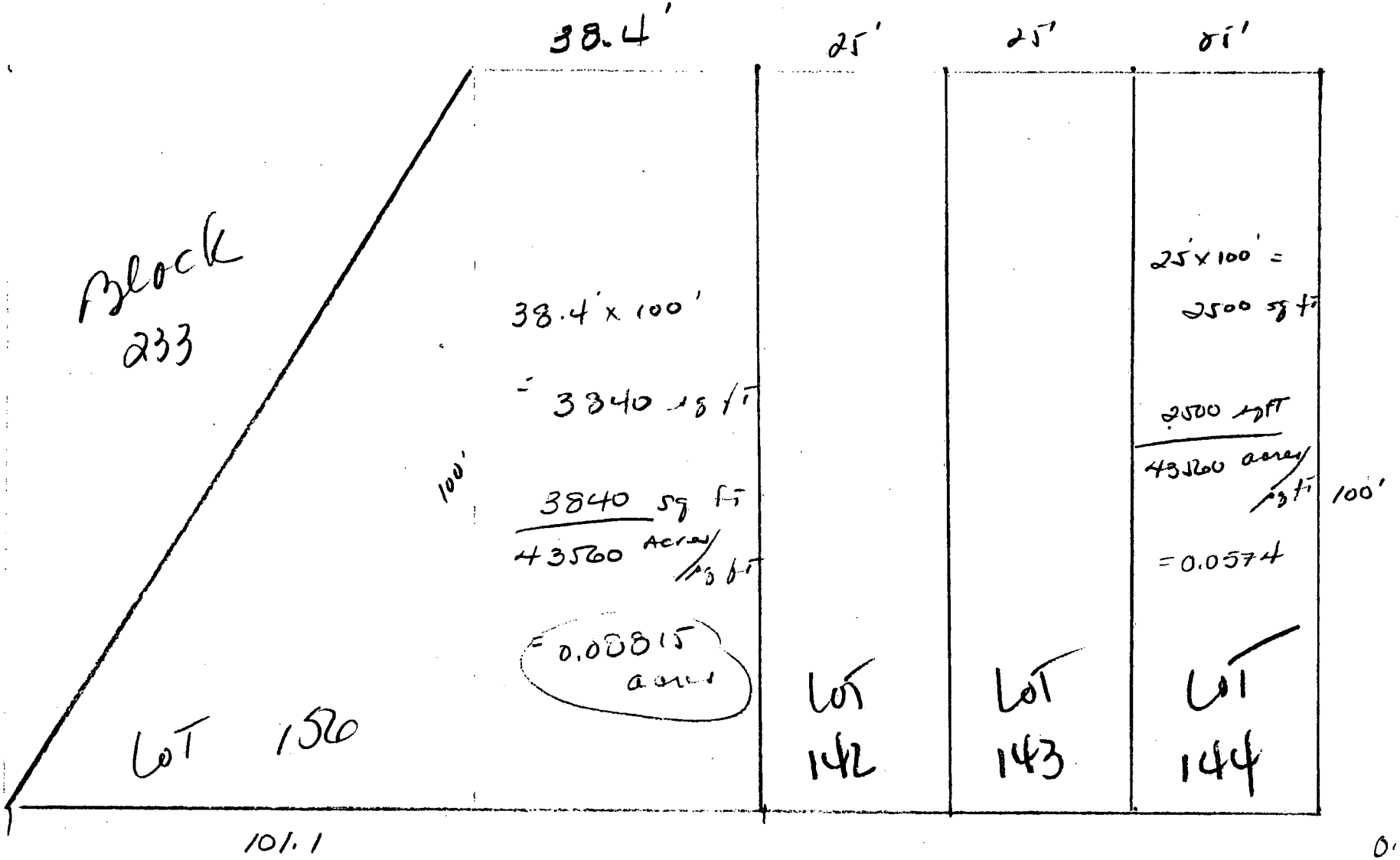
Photograph #: 13
Site Name: Star Carting Company
Location: Garden City Park, New York
Photographer: Edgar Aguado
Date and Time: December 6, 1995, between 10:30 and 11:35 A.M.
Description: Southwest corner of Star Carting Building (northeast view).

Photograph #:	14
Site Name:	Star Carting Company
Location:	Garden City Park, New York
Photographer:	Edgar Aguado
Date and Time:	December 6, 1995, between 10:30 and 11:35 A.M.
Description:	Star Carting Building and Storage Yard (northwest view).

Photograph #:	15
Site Name:	Star Carting Company
Location:	Garden City Park, New York
Photographer:	Edgar Aguado
Date and Time:	December 6, 1995, between 10:30 and 11:35 A.M.
Description:	Star Carting Building and Storage Yard (northwest view).

REFERENCE 5

Sher Building (T. Arc Inc 12/18/95



Reference 5
Page 1 of 1

101.1' − 38.4' = 62.7'

Area $\frac{62.7' \times 100'}{2} = \frac{6270}{2} = 3135$ sq. ft

3135 sq ft ÷ 43560 = Acres/sq ft

0.072 acres

0.0574 acres × 3 =

0.172 acres

0.072
0.080
+ 0.172
0.332 acres

REFERENCE 6

Site Reconnaissance 1/22/93

Operations ceased 84-85

Densifier crushed garbage

Only municipal trash

Storm Drains received household hazwaste and sanitary

(cesspool sampling) → 6050 found (petroleum jelly-like substance)

→ 1000 ppb in cesspool

Contractor → clean out cesspool as part of previous work

MWs downgradient of cesspool

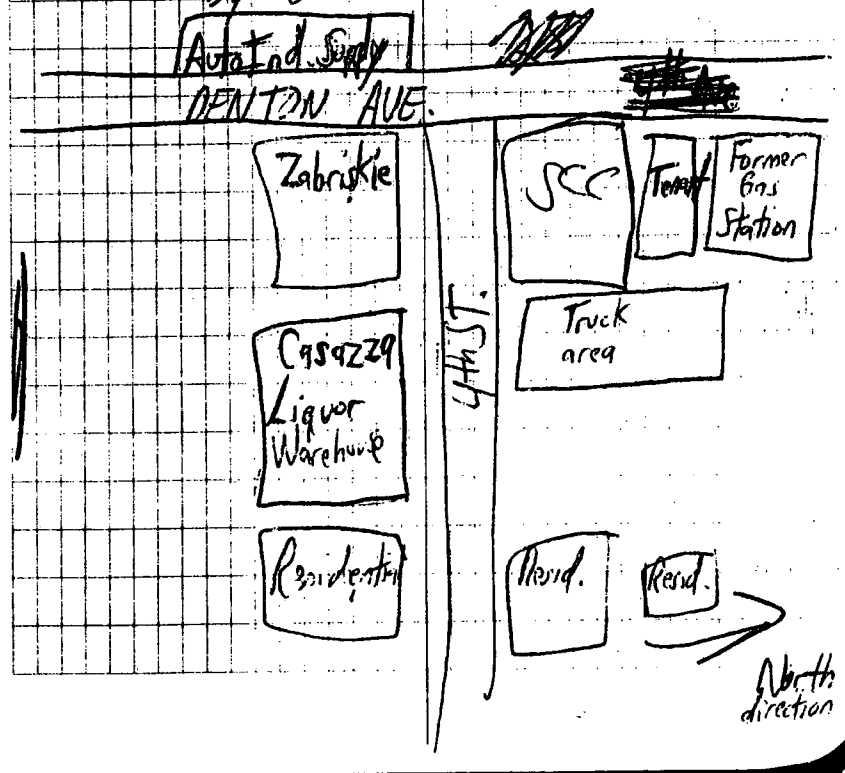
Star Carting Company – Garden City Park, NY

Weather – Rainy, 40°, light wind 0-5 mph

Previously → Garbage Crushed then dumped in nearby landfills (Oyster Bay, Hempstead, Islip, Smith Town)

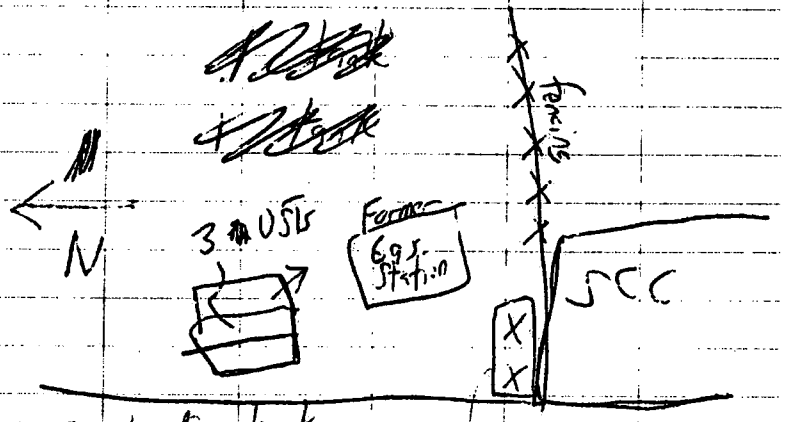
Facility discharges to Cedar Creek WWTP

State designation Class II – signif. threat to environment by Commissioner of NYSDEC



Tanks pulled from former gas stations in 1991 approx (summer)

Tanks weren't used since ?



USTs at adjacent site

1. Diesel 4000 gallon
2. Reg gas 2000 (each of two)

2 fill stations (moved after tank pulls)

Anticipated → Late summer or fall for sampling

RI/FS → needs comments, public hearings, setting up docket for public review at local libraries, universities.

Parking lot → 12-inch conc. slab
Indoors → 8-inch slab
Building → brick material

Surface water in area not used for drinking only GW

Reference 6 Page 2 of 3

Current operations ⇒ Maintenance of garbage trucks, steam cleaning of trucks.

Facility discharges are storm drains in outside truck area, indoor drains. No pretreatment necessary at present time. No SPDES permit necessary.

- No odors, no blowing soil during reconnaissance
- Air monitoring ⇒ below reg. levels

REFERENCE 7

DONNELLY ENGINEERING

LAWRENCE A. DONNELLY, P.E.

February 8, 1993

VIA FEDERAL EXPRESS

Mr. Michael Gorman
Resource Application, Inc.
6 N. Michigan Avenue
Suite 1605
Chicago, IL 60602

Re: Star Carting Company, Draft RI/FS

Dear Mr. Gorman:

Enclosed, per your request, please find one copy of Draft RI/FS for Star Carting Company. Also enclosed you will find the PIP bill to copy.

I hope the enclosed is of some help in your work.

Very truly yours,

DONNELLY ENGINEERING

Lawrence A. Donnelly, P.E.

LAD/pf
Encls.

55 SOUTHERN BOULEVARD, NESCONSET, NEW YORK 11767 TELEPHONE (516) 979-7788 FAX (516) 979-7819

DRAFT #2

REMEDIAL INVESTIGATION/

FEASIBILITY STUDY

PREPARED FOR

STAR CARTING COMPANY

12-31-92

REMEDIAL INVESTIGATION/ FEASIBILITY STUDY PREPARED FOR STAR CARTING COMPANY

addition, the "Densifier Surveys" will be sampled for analysis. Two samples per boring will be taken below the original bottoms of the leaching pool sources identified above. The samples will be analyzed for the complete "target compound list" (TCL) for metals, VOC, semi-VOC, and pesticide/PCB. Due to physical constraints, sample acquisition from within the facility structure might require specialized boring equipment.

2.3 SITE HISTORY

Star Carting Company has conducted operations at this facility since 1976. At this facility, trucks are used to carry municipal waste to the facility where the material is compressed for transfer to other sites for disposal. In the process of transferring the waste to the compacting machine and back to the vehicles for transportation off the "Site" some of the waste is spilled onto the floor inside the building where the material is washed into a densifier sump in two leaching pools known as the North Leaching Pool and the South Leaching Pool. The North and South Leaching Pools have been emptied of their contents by pumping and have been abandoned in accordance with proper procedure and capped so that they are no longer useful as leaching pools. The trucks are then taken outside to the paved yard enclosed by a fence where they are washed and prepared for the next

day of work. During the washing procedure, waste wash water is drained across the paved surface where it collects in one of the four storm drains located and identified as Northwest, Northeast, Southwest and Southeast Storm Drains.

In 1985 the Nassau County Department of Health and Star Carting Company independently obtained samples from the four exterior storm drains, two interior leaching pools, the densifier sump and the sanitary septic system. Copies of the results of the sample analyses are enclosed as Attachment 1. These samples were collected in response to a Draft Order on Consent requiring Star Carting Company to connect this site to the Nassau County POTW. The analytical data showed that the inside leaching pools contained elevated concentrations of chlorinated and aromatic organic solvents, heavy metals, oil and grease. Samples which were analyzed using the Extraction Procedure for toxicity showed all metals to be within New York State Effluent Limitations.

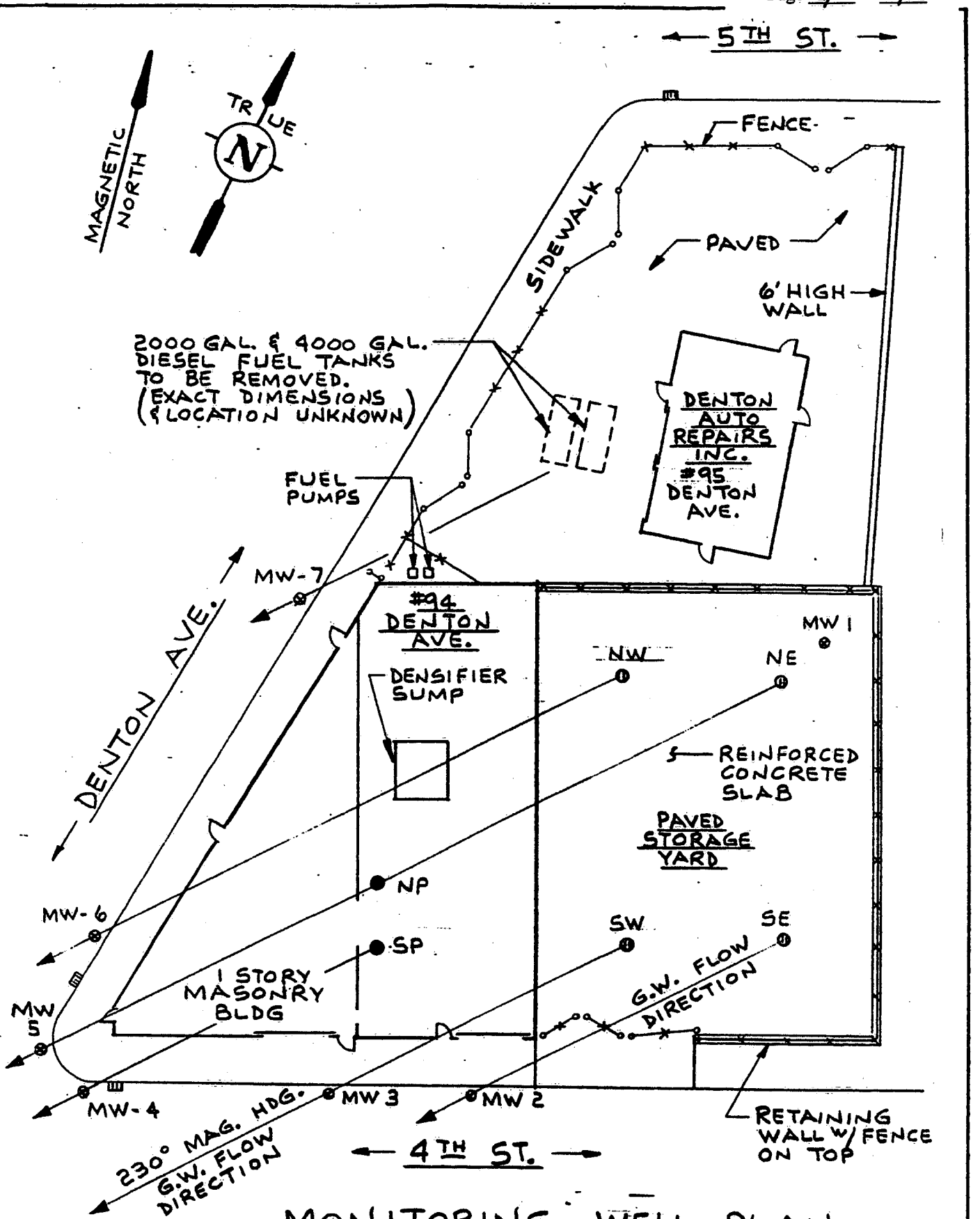
The exterior storm water leaching pools showed certain parameters to be in excess of New York State Effluent Limits as indicated in Table 2. The sanitary septic tank and leaching pool showed the presence of aromatic solvents which may have been deposited there from the waterless hand cleaner used by the workers at the Star Carting Company. Until the time that this facility was tied into the Nassau

County POTW, the sanitary waste was discharged to a subsurface sanitary disposal system. In 1988 all exterior and interior points of discharge were resampled. The laboratory data for this round of sampling are provided in Table 2 of this document. New York State Effluent Limits were exceeded at all locations for metals or solvents as indicated in the enclosed table. As was true for the earlier samples taken in 1985, the metals when analyzed using the Extraction Procedure for toxicity was less than all New York State Effluent Limits.

3.0 SCOPE OF WORK FOR THE REMEDIAL INVESTIGATION

3.1 REMEDIAL INVESTIGATION OBJECTIVES

The Scope of Work for the Remedial Investigation at the Star Carting Company "Site" is designed to collect all data necessary to aid in determining the vertical and horizontal extent of contamination and the extent to which migration of contaminants has occurred. The end result of the Remedial Investigation should provide data which would be adequate to develop an approved Feasibility Study for the remediation of this "Site." This work will include the installation of monitoring wells, soil borings, and a groundwater sampling program.



MONITORING WELL PLAN

SCALE: 1" = 30'

LEGEND:

⊕ OR ▥ : STORM DRAIN

MW: MONITORING WELL

● : IND. L.P.

FOR STAR CARTING CO.
BY: DONNELLY ENGINEERING
DATE: MAY 8, 1992

FIGURE 2

REFERENCE 8

New York State Department of Environmental Conservation
Building 40—SUNY, Stony Brook, New York 11790-2356

Langdon Marsh
Commissioner

APR - 4

FACT SHEET ON THE STAR CARTING COMPANY SITE

GARDEN CITY PARK, NEW YORK

SITE CODE # 130039

FEBRUARY 1995

The Star Carting Company (Star) facility is located at 94 Denton Avenue, Garden City Park, Nassau County, New York. (See Site Location Map). It has been placed on the New York State Department of Environmental Conservation (NYSDEC) Registry of Inactive Hazardous Waste Sites and has been given a Classification Code of "2." This classification has been assigned to approximately 70 other sites in Nassau and Suffolk Counties. This site presents a significant threat to public health or the environment. It is important to note that this threat is not judged to have any potential for immediate impact. However, action is required to fully investigate the contamination associated with the site, and to examine the necessity for remediation. If remediation is required, alternatives will be considered to eliminate any risks to the public health or the environment.

SITE HISTORY

The Star facility was formerly used as a transfer station for refuse. Wastes were brought to the facility, compacted and transported to a landfill. Liquid residues from the compaction

printed on recycled paper

operation and truck washing activities were drained onto the floor and paved parking lot. These ultimately discharge to the groundwater, through storm water leaching pools. The compacting operation was discontinued on or about 1986, leaving only the truck maintenance and storage activity at the Star facility. Samples of soil and storm water have detected low concentrations of contaminants in excess of regulatory standards (described on page 3). The purpose of the remedial investigation is to determine the nature and extent of additional contaminants in the soil at this site, down to and including groundwater.

Contamination was found in the sanitary leaching pool which was formerly used at the Star site. The leaching pool has since been cleaned, by washing and pumping, and properly backfilled. The facility currently discharges directly to a sanitary sewer.

In addition, two leaching pools were installed in the room containing a refuse compactor. These two pools received drainage from the floor of the residual truck wash water and from the floor washing operations. These waste water leaching pools have been cleaned, pumped, backfilled and sealed with concrete. Both the sanitary leaching pools and the leaching pools associated with the refuse compactor were closed with the approval of the Nassau County Department of Health.

The nature of the contaminants which are suspected to be present and alleged to have been discharged are: elevated concentrations of chlorinated and aromatic organic solvents, oil and grease.

CURRENT STATUS

Star Carting Company has retained the locally-active, environmental consulting engineering firm of Donnelly Engineering to conduct the RI/FS.

The Remedial Investigation to be carried out at the Star facility is designed to collect all data necessary to aid in determining the vertical and horizontal extent of contamination at the site and the extent to which any migration of contaminants has occurred. This work will include the installation of monitoring wells, soil borings, and a groundwater sampling program.

As part of this study, a Citizen Participation Program, approved by the NYSDEC, will be implemented to inform the public of the plans for investigation activities, remediation activities, and subsequent evaluation of the facility status pertaining to potential environmental impact. It also provides an opportunity to learn from the public, information that will be useful in developing a comprehensive investigation and remedial

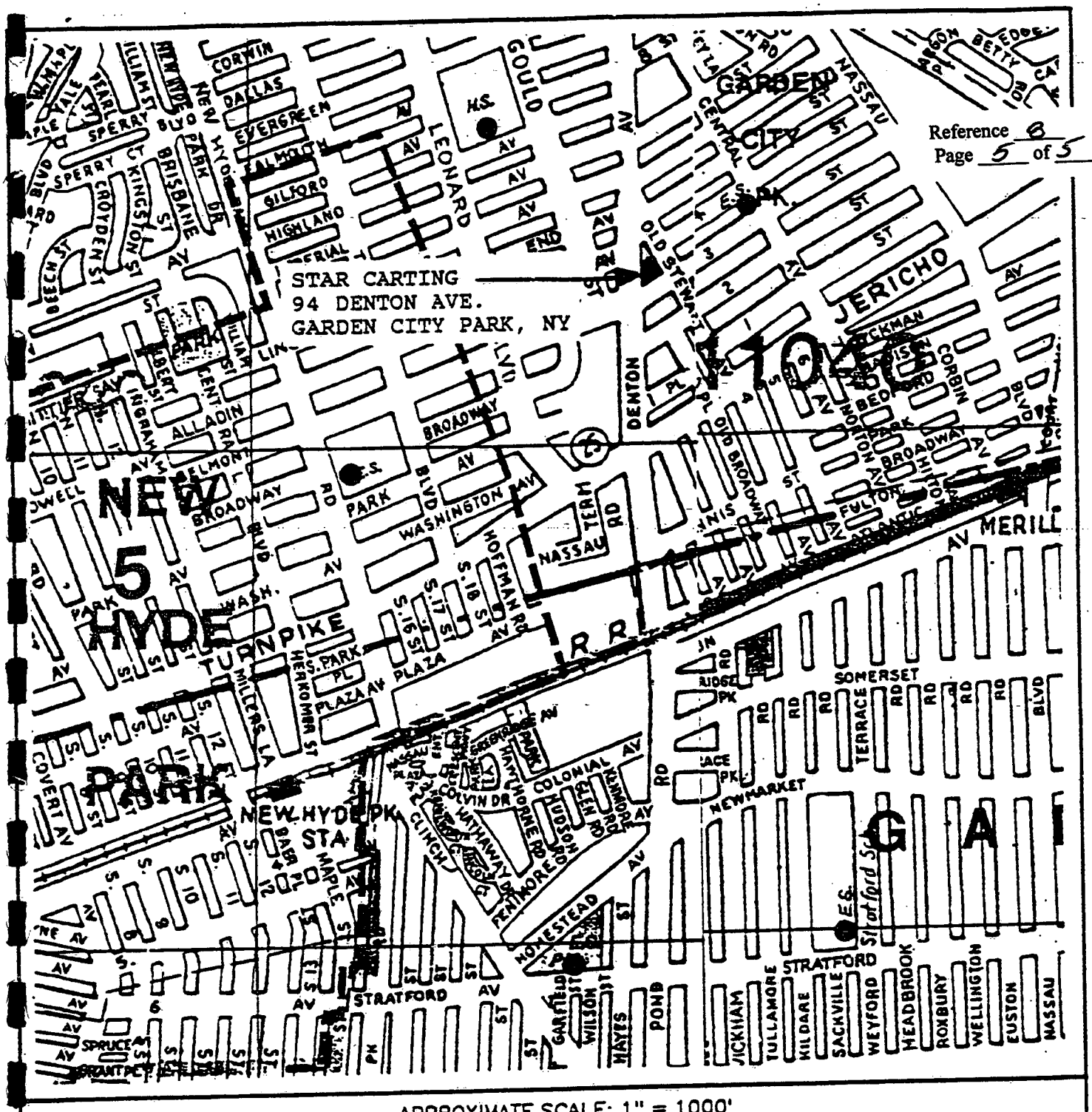
program which is protective of both public health and the environment. A local Document Repository is being established at the Garden City Public Library, 60 7th Street, Garden City, New York 11530. The local Repository is in addition to the NYSDEC Region I Office, Division of Hazardous Waste Remediation, SUNY Building 40, Stony Brook, New York 11794. Repositories are places where people can examine the relevant public documents. A copy of the NYSDEC approved RI/FS Workplan is included in the documents at the Repository. The documents will be updated as these become available. An upcoming opportunity to exchange information will be a public meeting to discuss the findings of the Remedial Investigation.

FOR FURTHER INFORMATION please contact:

Joshua Epstein, Ph.D.
NYSDEC Citizen Participation Specialist
Region I, SUNY Campus, Bldg. 40
Stony Brook, NY 11790
(516) 444-0249

and for health-related information:

John Olm or Mrs. Knapp
N.Y.S. Department of Health
1-800-458-1158 or 518-458-6402



APPROXIMATE SCALE: 1" = 1000'

TAKEN FROM:

HAGSTROM ATLAS OF NASSAU COUNTY, N.Y.

FOR:

STAR CARTING CO.

BY:

DONNELLY ENGINEERING
DEC. 20, 1994

N

REFERENCE 9

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

REGION CODE: 2 REGION: 1 SITE CODE: 130039
EPA ID: NYD064726938

NAME OF SITE: Star Carting Company
STREET ADDRESS: 94 Denton Avenue
TOWN/CITY: Garden City Park COUNTY: Nassau ZIP: 11040

SITE TYPE: Open Dump- Structure-X Lagoon- Landfill- Treatment Pond-
ESTIMATED SIZE: 0.3 Acres

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER NAME....: Susan and Michael Bonasera
CURRENT OWNER ADDRESS.: 224th St., New Hyde Park, NY
OWNER(S) DURING USE...: Susan And Michael Bonasera
OPERATOR DURING USE...: J&M Bonasera /Bonasera,& Star Cartg.
OPERATOR ADDRESS.....: 94 Denton Ave., Garden City Park, NY
PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 6/85 To 6/86

SITE DESCRIPTION:
This is a transfer station for refuse. Wastes were brought to the facility, compacted and transported to a landfill. During June of 1985 to June of 1986, there was a continuous discharge of hazardous waste, including chlorinated and non-chlorinated solvents to an on-site leaching pool. Groundwater samples at this site has shown contamination of the sole source aquifer at excess above NYS standards and guidelines. An RI/FS is underaay at this site.

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected-

TYPE	QUANTITY (units)
cis and trans 1,2-dichloroethylene	Unknown
trichloroethylene	
tetrachloroethylene	
toluene	
xylene	

ANALYTICAL DATA AVAILABLE:
Air- Surface Water- Groundwater-X Soil- Sediment-

CONTRAVENTION OF STANDARDS:
Groundwater-X Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: RI-FS State- X Federal-
STATUS: Negotiation in Progress- Order Signed- X

REMEDIAL ACTION:

Proposed- Under design- In Progress- Completed-
NATURE OF ACTION:

GEOTECHNICAL INFORMATION:
SOIL TYPE:
GROUNDWATER DEPTH: Approx. 60 Ft.

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

The drywells inside the building have received an unknown amount of organic and inorganic chemicals. The outside drywells have been contaminated by truck washings and possible illegal discharges.

ASSESSMENT OF HEALTH PROBLEMS:

Waste materials containing chlorinated solvents were discharged to subsurface leaching pits. Monitoring wells installed by Nassua County Department of Health in the area contain contamination with solvents in excess of drinking water standards. Public water supply wells are treated with carbon filtration. The source of the groundwater contamination in these wells has not been identified. The area is served by public water.

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

REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

REGISTRY SITE OWNERS INFORMATION

Registry Site Name: Star Carting Company

Registry Site Number: 130039

Registry Site Street Address:

94 Denton Avenue

Registry Site City: Garden City Park

Registry Site County: Nassau

22

Parcel Section 092
Sub Section 33
Block 015
Lot 60
Sub Lot
Suffix

9/233/156

Owner Name: BONSERA ETAL SUSAN

Parcel 94
Address DENTON AVENUE

Previous
Owner Susan And Michael Bonasera

Registry Page Numbers

1-61 1-62

REFERENCE 10

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPLICATION FOR APPROVAL TO OPERATE A SOLID WASTE MANAGEMENT FACILITY

FOR STATE USE ONLY

PROJECT NO. Y-30-T-02

DATE RECEIVED 2/17/78

DEPARTMENT ACTION ☐ Approved ☐ Disapprov

Reference 10

Page 1 of 1

1. APPLICATION INSTRUCTIONS ON REVERSE SIDE

3. OWNER'S NAME: Hillside As H & Rubbish Rem, Inc	2. ADDRESS (Street, City, State, Zip Code): 94-Denton Ave Garden City Park, N.Y.	516747-5466
4. OPERATOR'S NAME: Joseph & Michael Bonsera	5. ADDRESS (Street, City, State, Zip Code): 1602-Terrace Blvd New Hyde Park, N.Y.	6. Telephone No. 516 354-4699
7. ENGINEER'S NAME: Joseph Bonsera	8. ADDRESS (Street, City, State, Zip Code): Glenby Lane Brookville, N.Y.	9. Telephone No. 516 626-1445
10. ON-SITE SUPERVISOR: Joseph & Michael Bonsera	11. ADDRESS (Street, City, State, Zip Code): As Above	12. Telephone No.

13. HAS THE INDIVIDUAL NAMED IN ITEM 10 ATTENDED A DEPARTMENT SPONSORED OR APPROVED TRAINING COURSE? ☐ Yes Date Course Title Location ☒ No

14. PROJECT/FACILITY NAME: None	15. COUNTY IN WHICH FACILITY IS LOCATED: Nassau	16. ENVIRONMENTAL CONSERVATION REGION

17. TYPE OF PROJECT FACILITIES: ☐ Composting ☒ Transfer ☐ Shredding ☐ Baling ☐ Sanitary Landfill ☐ Incineration ☐ Pyrolysis ☐ Resource Recovery-Energy ☐ Resource Recovery-Materials ☐ Other

18. HAS THIS DEPARTMENT EVER APPROVED PLANS AND SPECIFICATIONS AND/OR ENGINEERING REPORTS FOR THIS FACILITY? ☐ Yes Date ☒ No

19. LIST WASTES NOT ACCEPTED

20. BRIEFLY DESCRIBE OPERATION

We simply empty our refuse vehicles on a conveyor into a composting machine into a compost container and then from the compost container and truck to the North Hempstead Resource Recovery Facility. We hand pick our own facility for outside material to be brought to our facility.

21. IF FACILITY IS A SANITARY LANDFILL, PROVIDE THE FOLLOWING INFORMATION:

a. Total useable area: (Acres) Initially ____ Currently ____

b. Distance to nearest offsite, downgradient, water supply well ____ Feet

c. No. of groundwater monitoring wells: Upgradient ____ Downgradient ____

22. INDICATE WHICH ATTACHMENTS, IF ANY, ARE INCLUDED WITH THIS APPLICATION:

☐ Form 47-19-2 or SW-7 ☐ Operations Plan & Report ☐ USGS Topographic Map ☐ Record Forms ☐ Other None

☐ Construction Certificate ☐ Boring Logs ☐ Water Sample Analysis ☐ None

23. CERTIFICATION:

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

2-3-78 Joseph Michael Bonsera Vice President

Date Signature and Title

19-4 (6/77) Formerly SW-2

REGIONAL OFFICE COPY

REFERENCE 11

PL

New York State Department of Environmental Conservation
BLDG.#40, SUNY, STONY BROOK, NY 11794

Peter A. A. Berle,
Commissioner

March 3, 1978

Mr. Joseph Bonsera, V.P.
Hillside Ash & Rubbish
94 Denton Avenue
Garden City Park, NY 11530

Dear Mr. Bonsera:

For your application to be considered complete, you must answer the following comments:

1). What is the quantity of refuse handled expressed in tons per day? Avg/day, 50 Tons

2). Is refuse stored in this facility over the weekend? N. If so, what are the precautions taken to eliminate rodents, vermin, etc.

3). Submit a written description showing how this facility complies with Part 360.8 especially Section 5 thru 11.

4). If the compactor breaks down, what are the contingency plans?

If you have any questions, please do not hesitate to contact either myself or Morris Bruckman.

Sincerely yours,

Paul Lappano

Paul Lappano
Asst.Sanitary Engr.

PL/ef
Enc.
cc: Frank Pedersen - NCDH

REFERENCE 12

STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGULATORY AFFAIRS UNIT
Bldg. 40, SUNY, Room 219
Stony Brook, N.Y. 11794

Reference 12
Page 1 of 1

NOTICE OF INCOMPLETE APPLICATION

TO: Josept Michael Bonsera
47 Washington Blvd.
Commack NY 11725

DATE: Feb 16, 1984

Permit Applied For: 360 SWME Location: Garden City Pk N.Y. 11040

Application Number: 10-83-1634 (30 T 02)
(Please refer to this number in all your correspondence)

YOUR APPLICATION FOR THIS PERMIT IS INCOMPLETE UNTIL THE REQUESTED INFORMATION LISTED BELOW IS SUBMITTED TO THIS OFFICE.

____ You did not include with your application the full amount of the required fee. Please submit a check or money order in the amount of $_____, payable to the New York State Department of Environmental Conservation.

xx Please submit the following data:

1. What tonnage is accepted at this site an a daily basis?
2. Provide a location map for this facility.
3. Provide an address for the facility.

(1.) MAXIMUM 100 TONS DAILY BASIS.
(2.) Address is 94-DENTON AVE, GARDEN CITY PARK, 11040
(3.) THE NAME OF THE TRANSFER STATION IS AS FOLLOWS: BONSERA INC T/A STAR CARTING CO.
(4.) LOCATION MAP ON SKETCH IS INCLUDED WITH THIS APPLICATION.

____ It has been determined that your project is subject to Article 8 of the Environmental Conservation Law, the State Environmental Quality Review Act (SEQR). Your application will be considered complete when:

RECEIVED
MAR 12 1984
SOLID WASTE MANAGEMENT
DEC REGION 1

For further information, contact this Office.

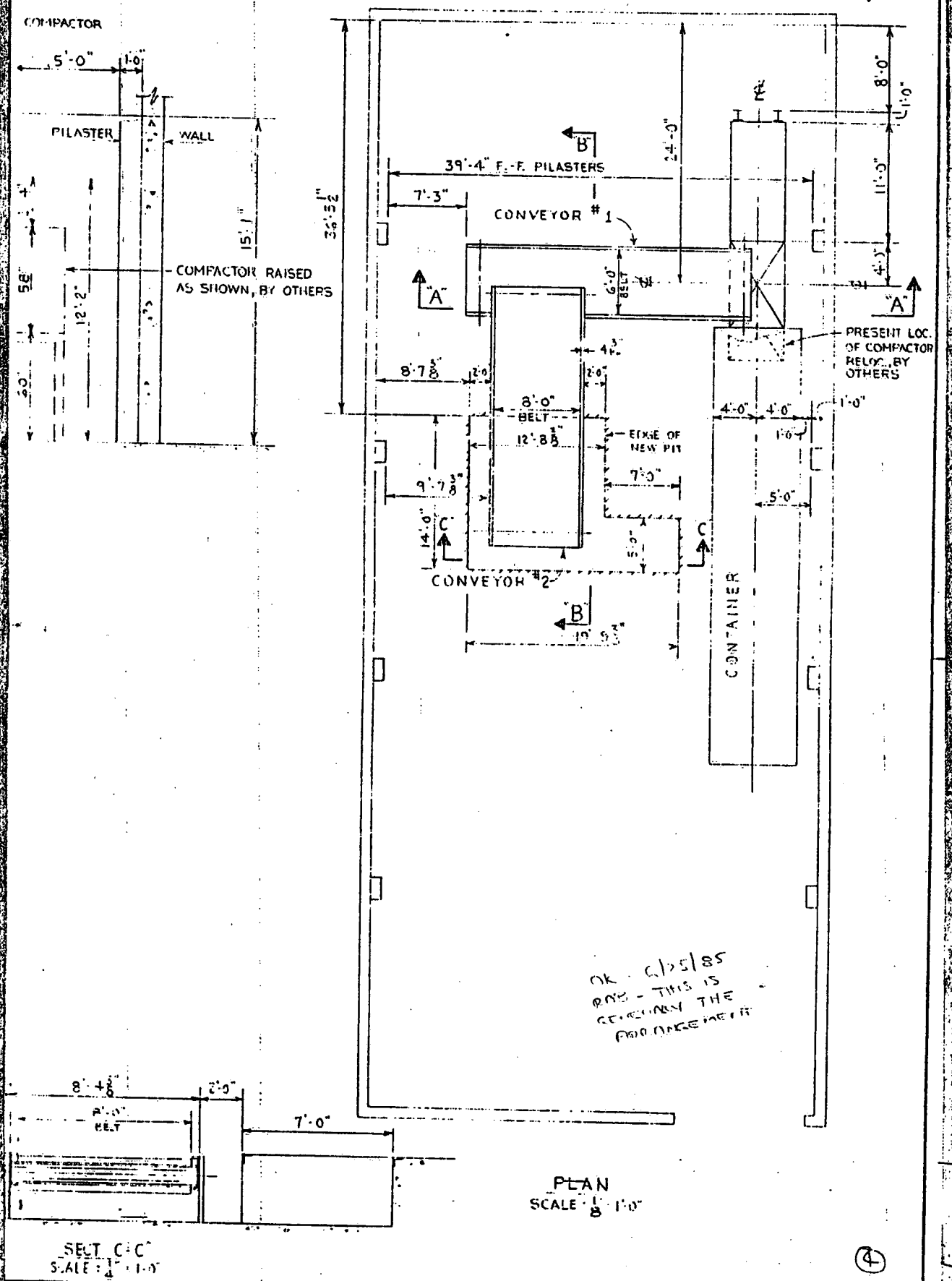
Project Manager_____

IF YOU WISH TO WITHDRAW YOUR APPLICATION RATHER THAN COMPLETE IT, PLEASE NOTIFY THE PERMIT AGENT for refund of application fee.
app

YOUR APPLICATION WILL LAPSE (BE DEEMED WITHDRAWN) IF YOU DO NOT REPLY WITHIN 90 DAYS OF THE DATE OF THIS NOTICE.

REFERENCE 13

Reference 13
Page 1 of 1



PLAN
SCALE: 1/8" = 1'-0"

SECT. C-C
SCALE: 1/4" = 1'-0"

4

LIVELY Co. TRANSFER STATION
FOR:
HILLSIDE ASH RUBBISH REMOVAL - GDN. CITY PK. NY

ELBERT LIVELY & CO., INC.
MATERIALS HANDLING ENGINEERS
5 LAWRENCE ST. BLOOMFIELD, N. J. 07003
N.J. (201) 743-2500 N.Y. (212) 732-0995

DATE	SCALE	DRAWING NO.	ISSUE
6-22-77	1/8" = 1'-0"	C-9783-1	3

REFERENCE 14

APPLICATION FOR APPROVAL TO OPERATE A SOLID WASTE MANAGEMENT FACILITY

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

PROJECT NO. 30 T 02

DATE RECEIVED

DEPARTMENT ACTION ☐ Approved ☐ Disapproved

DATE

1. OWNER'S NAME: Joseph Michael Bonsera	2. ADDRESS (Street, City, State, Zip Code): 47-Washington Blvd Commack, NY 11725	3. Telephone No.
4. OPERATOR'S NAME: Joseph Michael Bonsera	5. ADDRESS (Street, City, State, Zip Code): 47-Washington Blvd Commack 11725	Reference 14 Page 1 of 1
7. ENGINEER'S NAME: Joseph Michael Bonsera	8. ADDRESS (Street, City, State, Zip Code): 47-Washington Blvd Commack, NY 11725	9. Telephone No. 516 543-5523
10. ON-SITE SUPERVISOR: Joseph Michael Bonsera	11. ADDRESS (Street, City, State, Zip Code): 47-Washington Blvd Commack, NY 11725	12. Telephone No. 516 543-5523

13. HAS THE INDIVIDUAL NAMED IN ITEM 10 ATTENDED A DEPARTMENT SPONSORED OR APPROVED TRAINING COURSE?
☐ Yes Date Course Title Location ☒ No.

14. PROJECT/FACILITY NAME	15. COUNTY IN WHICH FACILITY IS LOCATED	16. ENVIRONMENTAL CONSERVATION REGION

17. TYPE OF PROJECT FACILITIES: ☐ Composting ☒ Transfer ☐ Shredding ☐ Baling ☐ Sanitary Landfill ☐ Incineration ☐ Pyrolysis ☐ Resource Recovery-Energy ☐ Resource Recovery-Materials ☐ Other

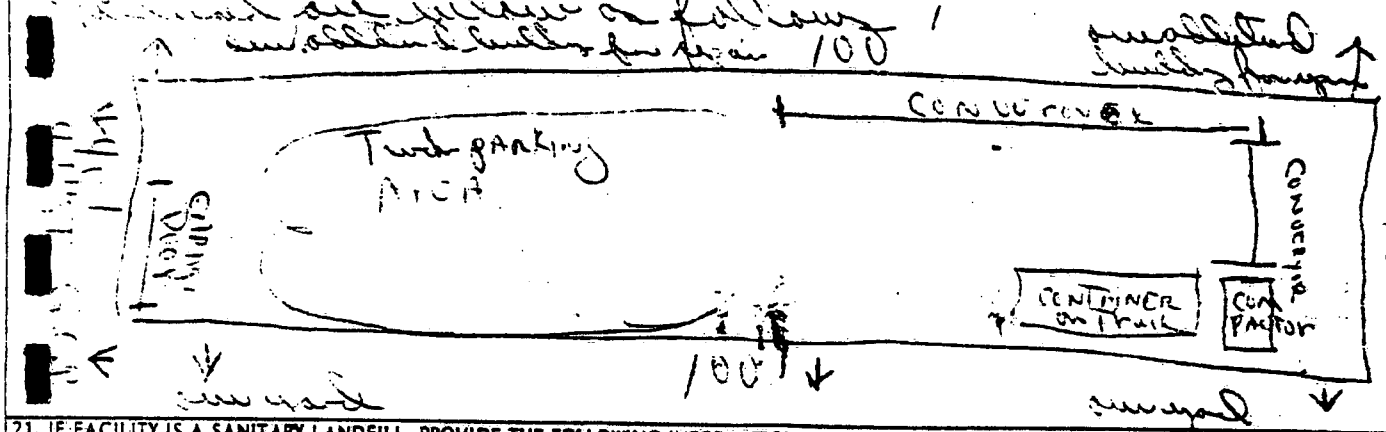
18. HAS THIS DEPARTMENT EVER APPROVED PLANS AND SPECIFICATIONS AND/OR ENGINEERING REPORTS FOR THIS FACILITY? ☐ Yes Date ☒ No

19. LIST WASTES NOT ACCEPTED

ANY ITEM THAT IS NOT ACCEPTABLE by LAW.

20. BRIEFLY DESCRIBE OPERATION

I dump REFUSE from REFUSE Trucks on [illegible] two step conveyor belt system into a compactor [illegible] into a steel container, when container is full; [illegible] to the local ground sanitary landfill area [illegible]. A sketch of the facilities that have been [illegible] are below as follows:



21. IF FACILITY IS A SANITARY LANDFILL, PROVIDE THE FOLLOWING INFORMATION:

a. Total useable area: (Acres) Initially _____ Currently _____

b. Distance to nearest offsite, downgradient, water supply well _____ Feet

c. No. of groundwater monitoring wells Upgradient _____ Downgradient _____

22. INDICATE WHICH ATTACHMENTS, IF ANY, ARE INCLUDED WITH THIS APPLICATION:
☐ Form 47-19-2 or SW-7 ☐ Operations Plan & Report ☐ USGS Topographic Map ☐ Record Forms
☐ Construction Certificate ☐ Boring Logs ☐ Water Sample Analysis ☒ None ☐ Other

23. CERTIFICATION:

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

11/23/83 Date

Joseph Michael Bonsera
Signature and Title

47-19-4(3/82)
Formerly SW-22

REGIONAL OFFICE COPY

N.Y. REGULATORY

REGULATORY AFFAIRS REGION

REFERENCE 15

Ted Sanford
Bob Bechanar
Star Carting 30-T-02, 10-83-1634

June 28, 1985

Dennis Cole and I visited the subject facility to check the plans that were submitted by the applicant on June 12. Also present were Stan Jucsak and Sue King of the Nassau County Department of Health. There were four drawings submitted by the applicant on June 12:

1. Plan of Property—Prepared by Dvirka & Bartilucci
2. Rooftop Extension—Prepared by Storch, Pesa & Associates
3. A survey of the property prepared by Bernard Padnick
4. A drawing prepared by Elbert Lively & Company showing the arrangement of equipment in the building.

The drawings seem to agree with the site. The only significant omission was the discovery of a sump for the toilets under the floor to the maintenance garage (see drawing No. 1).

The order of sampling was as follows (refer to drawing No. 1):

1. Southern Drywell Densifier Area—When this pit was opened, it was dry. Last week, when Nassau County inspected the site on odor complaints, they found this well being pumped out. A sample of the bottom sand was collected. It appeared very clean, suggesting that clean sand may have been put into the pit.

   The size of this pit was approximately four feet in diameter and approximately six feet deep.

2. Northern Drywell Densifier Area—this pit contained water. A water sample was collected for the NCHD and Mr. Bonsera. Mr. Bonsera used empty soda bottles as sample containers for each liquid sample that was taken by NCHD.

3. Dry Well No. 4-Southeast Corner of Storage Yard—This pit contained oily water about three feet deep. The structure consisted of slotted leaching rings, approximately eight feet in diameter. The water surface was oily and had grease balls.

4. Dry Well No. 3-Storage Yard (NE)—Had a difficult time removing the cover. Finally, it was removed using Star's forklift. The water in the sump was relatively clear. The dry well was constructed with slotted leaching rings.

5. Dry Well No. 2-Storage Yard (SW)—Same comments as for No. 4.

Other areas visually inspected were the two storm drains at the corner of 4th Street and Denton Avenue (both contained contaminated water) and the sump under conveyor No. 2. We probed the bottom of this sump. It did not appear to have a secure bottom.

Some other general observations:

1. None of the facility appears to be hooked up to the sewers. There are sewers on 4th Street and, possibly, on Denton Avenue. The NCRD was going to pursue this.

2. The storage yard is loaded with junk—used tires, broken down trucks and marine cleats, to name a few items.

3. The noise tests were conducted with no garbage. Mr. Bonsera claims the noise is even less when garbage is in the equipment.

4. The storage yard has at least four rodent traps, as shown on the Dvirka & Bartilucci drawing.

Afterwards, we stopped at Mr. Lange's home and explained what had taken place. Mr. Lange claims that most of the truck washings outside take place over dry well No. 1 (SW). This appeared to be confirmed by the presence of grease balls in the sump.

RAB:dm
cc: S. Jucsak
S. King
D. Cole
L. Riley

REFERENCE 16

STAR CARTING COMPANY
DENTON AVE. GARDEN CITY PARK NEW YORK 11040
(516) 248-0988 (516) 248-0967

Roll-Off Container Service
[illegible] available

Reference 16
Page 1 of 2

Probably from
Dave
DeFidden

3-9-84

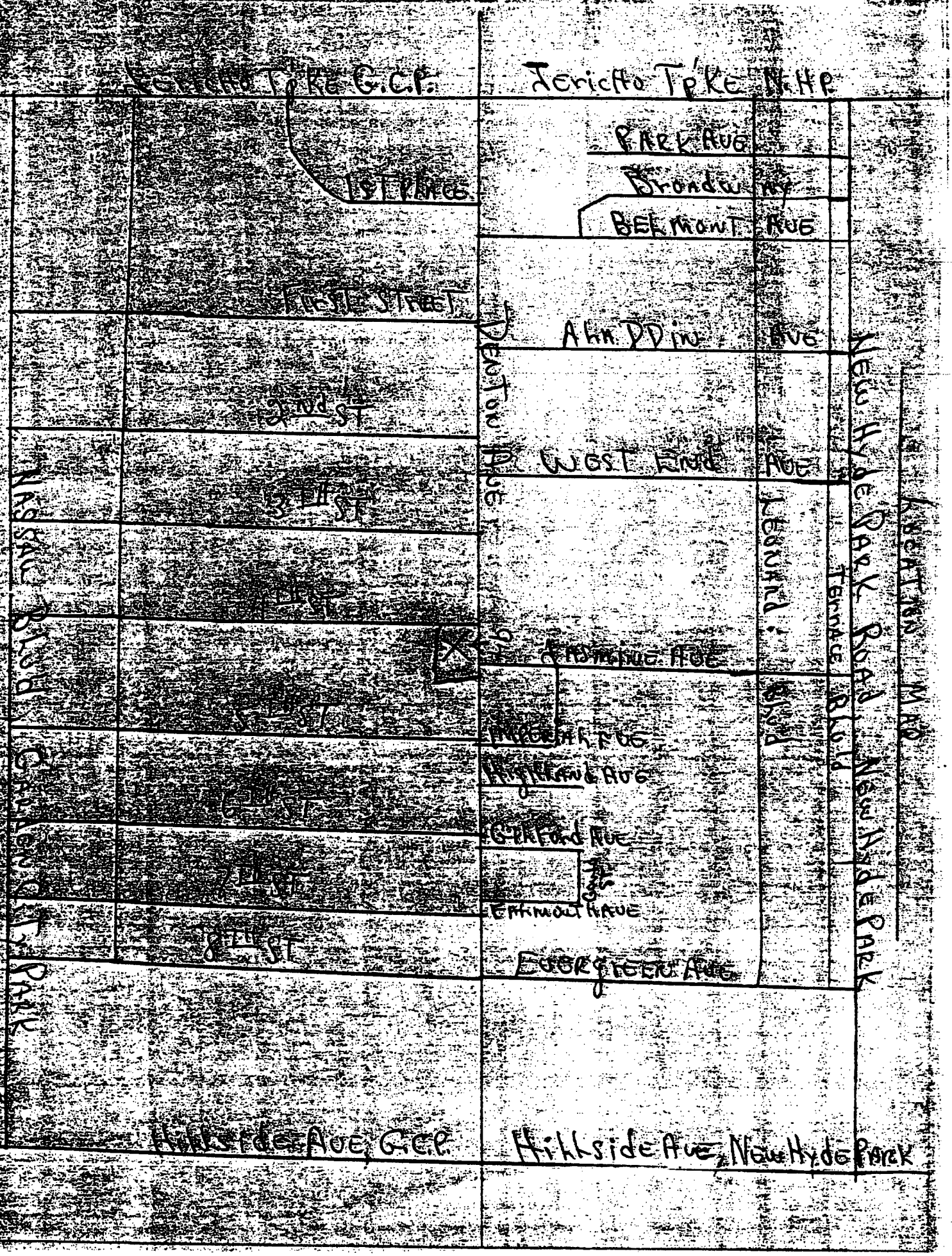
N.Y.S. Dept. of Environmental Conservation
Division of Solid Waste
Building 40, Stony
Stony Brook, N.Y. 11794

RECEIVED
MAR 1[illegible]
SOLID WASTE [illegible]
DEC [illegible]

Mr. Lane H. Neil P.E.
Regional Solid Waste Engineer.

Dear Sir:
Enclosed in this letter to you are photocopies of information that has been sent to the N.Y. State Dept. of Environmental Conservation Regulatory Affairs Unit at Stony Brook, room 213. The corporate name of the transfer station is as follows: Bonsen Inc. T/A Star Carting Co., our address is 94 Denton Ave, Garden City Park, N.Y. 11040. A location map or sketch is included with this letter. The site includes a heavy pull for water run-off. The site is cleaned and [illegible] daily. The type of waste is commercial waste that we [illegible] on our conveyors into our compaction machinery and then haul it off to a local landfill facilities. The commercial waste consists of office building, [illegible] shops, factories wastes, etc. I have never or would never handle any type of hazardous waste of any type.

Thank you
Mr. Joseph Michael Bonsen V.P.
Star Carting Co.


Jericho Tpke G.C.P.
Jericho Tpke N.H.P.
1st Place
Park Ave
Broadway
Belmont Ave
First Street
Alna Dwin Ave
Denton Ave
2nd St
West End Ave
3rd St
Leonard Blvd
Terrace Blvd
Location Map
New Hyde Park Road
New Hyde Park
Nassau Blvd
4th St
Jasmine Ave
5th St
Imperial Ave
Highland Ave
6th St
Gilford Ave
7th St
Fairmount Ave
8th St
Evergreen Ave
Garden City Park
Hillside Ave, G.C.P.
Hillside Ave, New Hyde Park

REFERENCE 17

New York State Department of Environmental Conservation
Building 40 - State University of New York
Stony Brook, New York 11794
(516) 751-7900

Reference 17
Page 1 of 1

Henry G. Williams
Commissioner

October 28, 1983

Hillside Ash & Rubbish Removal, Inc.
94 Denton Avenue
New Hyde Park, New York 11040

Gentlemen:

Records of this Department indicate that you are in violation of Part 360.2 of Title 6 of the Official Compilation of Codes, Rules & Regulations of the State of New York, in that you caused or permitted to be caused, the operation of a solid waste management facility (refuse transfer station) without benefit of the requisite permit.

In view of the foregoing, you are hereby requested to appear at this office on Wednesday, November 9, 1983 at two o'clock in the afternoon, in order that we may further discuss this matter.

If for any reason, you cannot appear on the aforementioned date or time, please contact this office immediately.

Very truly yours,

JOAN B. SCHERB
Regional Attorney

JBS:cm
cc: J. Heil
J. Maloney - SCDHS

REFERENCE 18

STATE OF NEW YORK

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road
Albany, New York 12233-0001

RECEIVED
MAY 2 1986
JOAN B. SCHERB

In the Matter

- of the -

Application for a Permit Pursuant to Part 360 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York to ratify past acts in having modified a solid waste transfer station

- by -

JOSEPH MICHAEL BONSERA

d/b/a Bonsera Inc.
and Star Carting Company
94 Denton Avenue
Garden City Park, NY 11040

Solid Waste Application No. 10-83-1634

DECISION

April 24, 1986

DECISION OF THE COMMISSIONER

The attached Hearing Report (the "Report") of Administrative Law Judge ("ALJ") A. Marshall Irving in the matter of the application of Joseph Michael Bonsera doing business as Bonsera Inc. and Star Carting Company ("Star Carting"), 94 Denton Avenue, Garden City Park, Nassau County, New York is hereby adopted as the Decision in this matter, subject to my comments below.

In reviewing the hearing record it is clear that the Applicant in having increased the capacity of his facility without applying for a Part 360 permit, in not applying for the permit until forced to do so under an Order on Consent, in conducting maintenance of trucks in the street, in operating a facility which constitutes a noise and odor nuisance, in failing to agree to carry out special conditions proposed by the Department Staff on the draft permit, and in pumping and cleaning dry wells just prior to inspection and test is either unable or unwilling to meet the requirements of the statutes and regulations for facilities handing solid waste in the State of New York.

Although Applicant provides a useful service, it is apparent that Applicant has not and cannot operate this facility in compliance with applicable statutes and regulations. The soil and groundwater contamination on the Applicant's Site revealed in this proceeding is also in and of itself sufficient cause for denial of the requested permit.

Accordingly, the permit is denied with prejudice to any future application and the Applicant is hereby ordered to cease and desist from any and all receipt, compacting and transfer of solid waste at the subject facility at 94 Denton Avenue, Garden City Park, New York 11040, not later than 30 days from the service of this Decision. The Department Staff is also hereby directed to determine if an enforcement action regarding groundwater contamination should be instituted against the Applicant at the subject facility.

IN WITNESS WHEREOF, the Department of Environmental Conservation has caused this Decision to be signed and issued and has filed the same with all maps, plans, reports, and other papers relating thereto in its office in the County of Albany, New York this 24th day of April, 1986.

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
HENRY G. WILLIAMS, COMMISSIONER

Henry G. Williams

REFERENCE 19

SUPREME COURT OF THE STATE OF NEW YORK
APPELLATE DIVISION: SECOND DEPARTMENT

0827P
Z/ls

_____ AD2d _____ Argued - March 24, 1987

WILLIAM C. THOMPSON, J.P.
CHARLES B. LAWRENCE
MOSES M. WEINSTEIN
ISAAC RUBIN, JJ.

RECEIVED
MAY 20 1987
JOAN B. SCHERB

3762E
846E

In the Matter of Joseph Michael Bonsera, et al., petitioners-respondents, v New York State Department of Environmental Conservation, et al., respondents-appellants.

DECISION & ORDER & JUDGMENT

Shlimbaum and Shlimbaum, Islip, N.Y. (Lark J. Shlimbaum of counsel), for petitioners-respondents.

Robert Abrams, Attorney-General, New York, N.Y. (Edith Holleman, Stuart Miller and Ezra Bialik of counsel), for respondents-appellants.

In a proceeding pursuant to CPLR article 78 to review a determination of the Commissioner of the New York State Department of Environmental Conservation, dated April 24, 1986, which, after a hearing, denied the petitioners' application for a permit to operate a solid waste transfer facility and ordered the petitioners to cease operations at the subject facility not later than 30 days after service of the commissioner's decision, (1) the petitioners seek review of that determination, and (2) the New York State Department of Environmental Conservation, the commissioner, and the Administrative Law Judge appeal, by permission, from so much of an order of the Supreme Court, Suffolk County (Abrams, J.), entered June 30, 1986, as granted the petitioners' application for a preliminary injunction.

ORDERED that the appeal from the order entered June 30, 1986, is dismissed as academic, as the proceeding is decided on the merits herewith; and it is further,

ADJUDGED that the determination dated April 24, 1986, is confirmed and the proceeding is dismissed on the merits; and it is further,

ORDERED that the respondents-appellants are awarded one bill of costs.

We have reviewed the record and have determined that there was substantial evidence to support the commissioner's determination that the petitioners failed to demonstrate that their facility was capable of compliance with the standards for such facilities established in 6 NYCRR 360.8. Denial of the operating permit was therefore proper (see, 6 NYCRR 360.2, 360.3; 300 Gramatan Ave. Assoc. v State Div. of Human Rights, 45 NY2d 176).

THOMPSON, J.P., LAWRENCE, WEINSTEIN and RUBIN, JJ., concur.

ENTER:

MARTIN H. BROWNSTEIN
Clerk

REFERENCE 20

Edith Hillman - 129

SUPREME COURT OF THE STATE OF NEW YORK
APPELLATE DIVISION: SECOND DEPARTMENT

0182K
B/nl

Dated - July 9, 1987

State of New York,
Court of Appeals

At a session of the Court, held at Court of Appeals Hall in the City of Albany on the thirteenth *day of* October *A. D. 19*87

Present, HON. SOL WACHTLER, *Chief Judge, presiding.*

2-10 Mo. No. 1027
In the Matter of Joseph Michael Bonsera, et al.,
Appellants,
vs.
New York State Department of Environmental Conservation, et al.,
Respondents.

A motion for leave to appeal to the Court of Appeals in the above cause having heretofore been made upon the part of the appellants herein and papers having been submitted thereon and due deliberation having been thereupon had, it is

ORDERED, that the said motion be and the same hereby is denied.

Donald M. Sheraw

Donald M. Sheraw
Clerk of the Court

Edith Hillman - 129

SUPREME COURT OF THE STATE OF NEW YORK
APPELLATE DIVISION: SECOND DEPARTMENT

0182K
B/nl

Dated - July 9, 1987

RECEIVED
JUL 22 1987
JOAN B. SCHERB

WILLIAM C. THOMPSON, J.P.
CHARLES B. LAWRENCE
MOSES M. WEINSTEIN
ISAAC RUBIN, JJ.

Motion No. 4791

In the Matter of Joseph Michael Bonsera, et al., petitioners-respondents, v New York State Department of Environmental Conservation, et al., respondents-appellants.

DECISION & ORDER ON MOTION

file: Alan Carting

Motion by petitioners-respondents (1) for reargument of the proceeding to review a determination of the respondent, Commissioner of the New York State Department of Environmental Conservation, dated April 24, 1986, or in the alternative, (2) for leave to appeal to the Court of Appeals from the order of this court, dated May 4, 1987, which confirmed the determination and dismissed the proceeding.

Upon the papers filed in support of the motion and the papers filed in opposition thereto, it is

ORDERED that the motion is denied, with $20 costs.

THOMPSON, J.P., LAWRENCE, WEINSTEIN and RUBIN, JJ., concur.

RECEIVED
JUL 22 1987
JOAN B. SCHERB

ENTER:

MARTIN H. BROWNSTEIN
Clerk

July 9, 1987 IN RE BONSERA v NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MOT.NO. 4791

REFERENCE 21

NASSAU COUNTY DEPARTMENT OF HEALTH

240 Old Country Road - Mineola, New York 11501

Reference 21
Page 1 of 1

To : Files

Date: November 5, 1984

From : Marvin B. Fleisher

Subject : Odor Complaint "Star Carting"

RECEIVED
NOV 9 1984
SOLID WASTE MANAGEMENT
DEC REGION I

This office received odor complaint by telephone from Mrs. Mulholland at 11:45 November 5, 1984.

Site was visited by Stan Juczak and Marvin Fleisher 12:10, November 5, 1984. Odor complaint was verified. There was a strong breeze towards the house. Odor seemed most prevalent at side of Mulholland home located on corner of 4th Street and Old Stewart Avenue. This house is elevated above the Star facility. There was very little odor at the facility.

Problem seems to be the empty, but dirty truck waiting to be cleaned. Inside of building was clean and free of garbage.

We suggested to Mr. Bonsera, that the truck be moved into the transfer station and cleaned there. He agreed and stated that cleaning the truck inside would not cause any problem with his operation.

The conditions for a new permit should include requirement that trucks be washed inside. This would also prevent garbage being washed into storm basin.

MBF:rc
cc: R. Becherer, NYSDEC

REFERENCE 22

September 7, 1984

FROM MR LANGE
11/9/84

Mr. Harold Berger
Regional Director
New York State Department of Environmental Conservation
SUNY Building 40
Stony Brook, New York 11794

Dear Mr. Berger,

Please accept this petition as a request for your office to investigate and act upon our following grievances towards a private sanitation firm doing business in the immediate residential area we all reside in.

Our complaint centers on the firm currently doing business as;

Star Carting Company
#94 Denton Avenue
Garden City Park, New York 11040

The above address consists of several lots composed of a large building and fenced in side yard. The business boarders directly on residential zoned properties - Old Stewart Avenue on the East Side, and a residential zoned street - 4th Street on the South Side. In the past, the same principles conducted business from this location as; Hillside Ash & Rubbish Removal, and JPM Trucking.

For many years, we the residents in the proximity of the above business have been constantly exposed to adverse conditions we seriously feel have been a real threat to our general health, safety and welfare - not only to ourselves, but also to the general community at large. Numerous complaints to various local and county agencies have been "ineffectual" to date. We will elaborate on the "adverse conditions" further on, but first we would like to state the very suspicious series of events that started in 1980 so you may understand our perspective.

During the summer of 1980, work proceeded on a large extension on the roof of the building, #94 Denton Avenue. No Building Permit was posted at this time. Due to the fact area residents successfully defeated an expansion variance request before the North Hempstead Town Board of Zoning & Appeals for the same building in 1977 (based on the deplorable conditions prior to and in effect at that time) the extension work in 1980 was viewed with suspicion and questioned. The president of the Garden City Park Civic Association and individuals communicated with the Town of North Hempstead Building Department about the extension and purpose. Our Building Department replied that the extension was a "skylight" to one person, and another person was told it was "additional" office space?!

expand

In 1981, the extension, and its purpose was investigated by Pat O'Keefe, an investigator for the Nassau County District Attorneys Office and his report was "turned over to the Town of North Hempstead Building Department" for disposition!?

With a noticable increase in raw garbage stench, rat infestation, and other conditions worsening, your office was contacted for an investigation. On April 6, 1983, Mr. Ted Sanford of the DEC Solid Waste Department conducted an on site inspection and reported that a raw garbage compactor was installed-in use, and the extension on the building was required for installation & fit!

Continued on Page 2....

COMPACTOR HAS BEEN THERE SINCE 1987, ACCORDING TO BONSERA'S LAWYER. A LARGER UNIT WAS INSTALLED IN 1990, ACCORDING TO BONSERA

Thus, as confirmed by Mr. Ted Sanford of your office, we learn by April 1983 the premises in question is now a "garbage transfer station", no longer a sanitation truck storage and repair facility! With the obvious covert and illegal installation of a raw garbage compactor from 1980 to the present we are faced with a business operation in existance without the required New York State Permit & Local Permit, with the principles enjoying the obvious cost advantages&immune from all the statutes that govern this type of business- statutes enacted to protect people and our environment!

What are the adverse conditions and impact on our daily environment been as a result of noncompliance? We would like to list just a few for your records;

* Noxious odors from fermenting raw garbage
* Rat infestion in the business & residential area
* Illegal storage overnight and weekends (indoors & outdoors) of raw organic garbage.
* Commercial repairs & maintenance of garbage trucks & compactors on a residential street. This is done daily on 4th Street due to the fact the space the compactor took up in the building & the cluttered condition of the side yard available.
* Commercial solvent washes, oil, grease, etc. are flushed daily into a rain catch basin on the corner of 4th Street & Denton Avenue. Please note, this rain sewer pipeline extends north a few blocks to the Nassau County Discharge Basin!

We would like to state more on the above list, but for expediency will do so later on with your office. All of us, or a representative group, request an immediate in person meeting with your office to offer; individual testimony, photographs, diaries, and other documention in addition to, and to substantiate the contents of this initial request.

We also, further request some answers to the following "hard" questions we all have regarding this entire matter;

1. How does the Nassau County Board of Health reports on this firm compare with the "negative" conditions we witness daily for these many years?

2. Did the Nassau County Board of Health inspections ever report, since 1980, that a sanitation truck storage facility, is in fact a garbage transfer station?

NOT HAS DONE

3. Request from the Nassau County Board of Health the number of resident complaints and inquiries recieved regarding this location. We wish to compare their data/file with our records.

4. What effect does the toxic like stench of raw organic garbage have on signers of this request whom have; heart conditions, the elderly, small children, and those of us whom suffer with respiratory and allergy problems?

WATER SAMPLE DONE 5/83

5. What effect on the environment does the commercial flushing of motor oils, grease, and industrial solvent sprays constantly being flushed and discharged into a rain catch basin have on our water supply? Especially here in our area where the Garden City Park Water District has had many problems with well contamination - on Denton Avenue?!

FIRE MARSHAL

6. On the north corner of the building #94 Denton Avenue, in an obscure location, are two (2) gasoline pumps in daily use; are the necessary permits required on file, and how old are the underground storage tanks?

Continued on Page 3.....

7. Under what conditions, and with whose permission, is a commercial firm permitted to perform truck repair (major & minor) and maintenance such as; welding, power tool use, tire repair (truck tires with "split" rims), heavy tonnage vehicles "jacked" up, solvent spraying, etc. on a residential street (off the business premises)? Whom is responsible (or will be held libel) for the safety of vehicular traffic, residents whom reside on the street, and other pedestrian traffic including area children on foot & bicycles and students whom must walk this public street to attend Memorial Grade & High School to the West?

TOWN?

8. Why have the principles of the business in question appear to be exempt from local ordinances, and state and county statutes which have been imposed upon and enforced towards other private sanitation firms in the immediate/same vicinity?

We will appreciate your immediate attention to this petition.

If you concur that the circumstances and facts detailed in this initial correspondence reflect a trend that existing laws have been abrogated to a point whereas we and our community are constantly in a position that is a "threat" to our general health, safety and welfare, as well as our environment - we request the full powers and authority of your office for an immediate removal of the illegal garbage compactor installed without required permits, and complete cessation of all the other detrimental activities listed herewith.

We all look forward, as soon as possible, to further communication with your office regarding this matter.

Thank you for your consideration.

Sincerely yours,

Per - Signatures & Addresses
Attached:

*cc's: Mr. George F. Pellechia, President, Garden City Park Civic Ass'n.
Mr. Edward Kline, Commissioner, Garden City Park Water District.
John J. Dowling, Commissioner, Nassau County Dept. of Health
Robert J. Mrazek, Congressman 3rdCD, Washington, D.C.
John B. Kiernan, Supervisor, Town of North Hempstead
Signators: 2 copies each/File: 10 copies.

* cc's to be sent after interim period and with permission of your office to avoid duplication of investigation, etc.

RESIDENT SIGNATURE'S PER PETITION NYS DEC, MR. H. BERGER DATED 9/7/84

Reference 22
Page 4 of 5

Kenneth William Lang Anne Lang	2 FOURTH STREET. GARDEN CITY PARK. N.Y. 11040.
Mary Verity Richard E Verity	35 Old Stewart Ave Garden City Park N.Y. " "
Florence Mulholland David Mulholland	39 Old Stewart Ave. Garden City Park. " " "
Diane Stachniewicz Genevieve Stachniewicz Anthony Stachniewicz	27 Old Stewart Ave Garden City Park 11040 " " " " " " " " " " " "
Joel R. Hudon Barbara Hudon Shirley E. Kneely	45 Old Stewart Ave Garden City Park 45 Old Stewart Ave GCP N.Y 11040 45 Old Stewart Ave. G.C.P.
Joseph J Colon Josephine Colon	46 OLD STEWART AVE GARDEN CITY PK NY 11040 " " " " " " " "
John F. Zaikowski Jr. Maureen Zaikowski	42 Old Stewart Ave., Garden City Park NY ditto
Virginia J. Dillon Edward N Dillon [illegible]	34 Fourth St Garden City PK. 34 Fourth St Garden City PK 27 Fourth St Grdn City PK
Vincent J. Sudiere Nancy Sudiere	31 FOURTH ST GARDEN CITY PARK 31 Fourth St Garden City Park
Vincent A. Sudiere Josephine Sudiere	31 Fourth St. Garden City Park 31 Fourth St. Garden City Park.
Vincent J Russo Cedal Russo	2 Fifth Street G C P 2 Fifth St Garden City Park
Pat De Nicola. Madeline De Nicola	47 Old Stewart Ave G C P. 47 " " "
Frank [illegible] Ruby Ramsey	22 4th St. Garden City PK NY 22 4th St Garden City PK N.Y.
Antipas Ubarra Jr. Rosario Ubarra	23 4th ST. GARDEN CITY PK. NY. 23 4th ST. GCP NY
Maria Soury	32 4TH ST G.C.P.

RESIDENT SIGNATURE'S PER PETITION NYS DEC, MR. H. BERGER DATED 9/7/84

Vincent A. Ghessi	5 Third St. Garden City Park
Rose A. Ghessi	" " "
Barbara Hamparian	3 Third Street Garden City Park 11040
George Hamparian	3 Third Street Garden City Park 11040
Mark Hamparian	3 Third Street Garden City Park 11040
Della Valle	1-3rd St. Garden City Pk.
E. Della Valle	" " " "
E. Mirecki	25 Old Stewart Ave G.C.P.
Dorothy Murray	25 old Stewart av.
C. Amoury	32-4TH ST G.C.P.
H. Soary	32 4th St G C P

*Total 43 Resident Signatures

REFERENCE 23

File - Star Carting

NASSAU COUNTY DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11501

FRANCIS T. PURCELL
County Executive

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

FRANCIS V. PADAR, P.E., M.C.E.
Deputy Commissioner
Division of Environmental Health

Reference 23
Page 1 of 4

Mr. Robert Becherer
NYS Dept. of Environmental Conservation
SUNY, Building #40
Stony Brook, New York 11794

June 24, 1985

Re: Star Carting
Garden City Park

Dear Mr. Becherer:

We are enclosing copies of two field reports made on June 19 and 20, 1985 at the above-captioned facility in response to recent odor complaints. The incident on June 20th was field verified by this office.

Please note that during the inspection made on June 20, 1985, a scavenger vehicle was on the premises pumping out the two interior drywells which had been scheduled for sampling by this Department on June 25th with Mr. Bonsera after the hearing on June 12th. Consequently, our sampling data may be invalidated by this activity. We will, however, now collect sediment/sludge samples from the bottoms of these drywells in addition to water samples if available.

We were advised by the Nassau County Department of Public Works that they (NCDPW) have no record of a connection by this facility to the public sewer. In addition to our sampling, we will also conduct dye tests on June 25th.

We will advise you of sampling results as soon as they become available.

Yours truly,

Susan G. King

Susan G. King
Bureau of Land Resources
Management

SGK/me

cc: A. Marshall Irving, P.E., Administrative Law Judge
Lori Reilly, NYSDEC
Joseph A. DeVincent, Senior District Representative
Diana Prevete, Town of North Hempstead, Chief Deputy Town Attorney
Shlimbaum and Shlimbaum, Esqs.
Nancy J. Schlotter, NYS Legis. Comm. on Water Resource Needs of LI
Kenneth W. Lang
John Zaikowski

PORT OF FIELD TRIP nd Resources Management ssau County Department of Health		Facility STAR CARTING CO.	
		Location 94 S. DENTON AVE	
te of ip 6/19/85		Village GARDEN CITY PARK Town TNH	
tivity 20	Class Code 344	Travel Time 15 min	Time at Site 15 min

ummary

AN ODOR COMPLAINT WAS RECEIVED BY MRS KING ON 6/18/85 RE: STAR CARTING. A COMPLAINT "SURVEY" INSPECTION MADE 6/19/85 REVEALED NO ODOR DESPITE SIMILAR CLIMATIC CONDITIONS BOTH DAYS (IT WAS MORE HUMID THE DAY OF THE COMPLAINT - GUSTY WNW WINDS DAY OF INSP.) AS I WALKED BY, A LARGE GARBAGE TRUCK WAS BEING CLEANED OUT (NO WATER IN USE) BUT CAUSED NO ODORS.

JA

Donald Kirkham, Jr. 6/20/85

RT OF FIELD TRIP
Resources Management
au County Department of Health

Facility STAR CARTING Co
Location 94 Denton Ave.
Village Garden City Park Town No. Hempstead

6/20/85

vity 20 | Class Code 506 | Travel Time 30 | Time at Site 1:00

Received three complaints on 6/20/85 between 10:15 and 10:30 A.M. (Mr. Lang, Mrs. Verity, Mrs. Mulholland) regarding very bad odors that morning. After conferring with S. Tuzzah I left to inspect the facility with Herb Welch at 11:10. Upon our arrival, we stood at the corner of Old Stewart Ave and 4th St. As we walked past the complainants' homes towards Star Carting, we verified an odor of garbage and cherry washing agent. We noted that the door to the large garage area was fully opened and the door to the compactor area was opened approximately five feet. We interviewed Mike Bonsera and told him we were there on odor complaints. He invited us into the compactor area to check for the source. There was no garbage in the pit or on the conveyor. There was no garbage odor in this part of the building. There was however, a scavenger truck pumping the ~~two~~ interior drywells which we are sampling (which we had discussed with Joseph Bonsera at the hearing on 6/12/85) on 6/25/85. Mike Bonsera said that they hadn't really been using the compactor over the last several weeks. There was a slight waste odor in this area (due to drywell pumping) and the cherry pickers were located in the doorway facing the homes. We also inspected the storage yard and found no refuse there. There was some fill in 2 of the roll off containers but this was not the source of the odor.

It was finally determined that the odor was emanating from a partially loaded Star garbage truck parked on 4th Street

Reported | Date

I 616 10/75 See Reverse Side for Sketch

Reference 23
Page 4 of 4

RT OF FIELD TRIP Resources Management au County Department of Health		Facility	
		Location	
		Village	Town
vity	Class Code	Travel Time	Time at Site

at the corner of Denton. Mr. Welch asked Mr. Bonsera to open the side door so he could inspect the inside (Mr. Bonsera had thought the truck was empty). We advised Mr. Bonsera to move the truck to another location. He said he would also throw some masking agents into the truck before he moved it

We returned to the office at 12:30 PM. I called Mr. Lang and told him of our findings and the correction He said the truck was no longer there. I also called Mrs. Mulholland (no answer) and Mrs. Verity who said the situation improved, but got bad again about 5 minutes before I called. I told her Mr. Juczak would be driving past the facility during the afternoon to see if the odor problems persisted.

ported Susan G. King Date 6/20/85

616 10/75 See Reverse Side for Sketch

REFERENCE 24

NASSAU COUNTY DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 501981
Source: STAR CARTING, NHP; INSIDE DRY WELL SOUTH
Matrix: SOIL
Date Sampled: 6/25/85
Date of Report: 07/11/85

VOLATILE HALOGENATED	MRC (ng/g)	RESULT (ng/g)
TRICHLOROFLUOROMETHANE	25	< 25
METHYLENE CHLORIDE	150	< 150
1,1,2-TRICHLOROTRIFLUOROETHANE		
1,1-DICHLOROETHYLENE		
c & t-1,2-DICHLOROETHYLENE	300	< 300
1,1-DICHLOROETHANE	625	< 625
CHLOROFORM	25	< 25
1,1,1-TRICHLOROETHANE	25	< 25
CARBON TETRACHLORIDE	25	< 25
• TRICHLOROETHYLENE	25	180
BROMODICHLOROMETHANE	25	< 25
c-1,3-DICHLOROPROPENE		
DIBROMOCHLOROMETHANE	25	< 25
1,1,2-TRICHLOROETHANE	25	< 25
1,2-DIBROMOETHANE	25	< 25
• TETRACHLOROETHYLENE	25	110
BROMOFORM	25	< 25

VOLATILE AROMATICS	MRC (ng/g)	RESULT (ng/g)
BENZENE	100	< 100
TOLUENE	100	< 100
CHLOROBENZENE	100	< 100
ETHYLBENZENE	100	< 100
XYLENE (o,m,p)	100	< 100
DICHLOROBENZENE (o,m,p)	200	< 200

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

JUL 12 1985

ATION OF INDUSTRIAL
WASTES
oratories and Research
ty Department of Health

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

Lab. No. 6255
Reference 24
Page 2 of 16
Field No. UN104

formation (Please Print)

Star Casting
94 Dentonitore
New Hyde Park

Point Inside South Drywell

	Month	Day	Year
Date Collected	6	25	85
Date Received	JUN 25	1985	8
Date Reported			8
Collection Time	10:50am		
Collected By:	V-Nazad		

Comments: EPA EXTRACT

NYS max. allowable concentration

Bureau:
1 ☑ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☐ Water
B ☑ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

Metals			Result	Check	Non-Metals		Result
Aluminum	2.0	mg/l	<0.5	15	Chloride	mg/l	
Arsenic	0.05	mg/l	<0.005	16	Cyanide	mg/l	
Barium	2.0	mg/l	<0.5	17	Fluoride	mg/l	
Cadmium	0.02	mg/l	0.003	18	MBAS	mg/l	
Chromium, Total 0.10 0.01		mg/l	<0.01	19	pH 6.5-8.5 INITIAL		7.0
Copper	1.0	mg/l	<0.05	20	Phenols	mg/l	
Iron, Total	0.6	mg/l	0.29	21	Solids, Suspended	mg/l	
Lead	0.05	mg/l	<0.01	22	Solids, Total Diss.	mg/l	
Manganese	0.6	mg/l	0.47	23	Sulfate	mg/l	
Mercury	0.004	mg/l		24	Ammonia nitrogen	mg/l	
Nickel	2.0	mg/l	<0.05	25	Kjeldahl nitrogen	mg/l	
Selenium	0.04	mg/l	<0.005	26	Nitrite nitrogen	mg/l	
Silver	0.1	mg/l	<0.05	27	Nitrate nitrogen	mg/l	
Zinc	5.1	mg/l	0.22	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent	Result
29	Chromium hex. mg/l	
30	~~[illegible]~~	
31	FINAL pH	5.0
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		

's Comments

NASSAU COUNTY DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

Reference 24
Page 3 of 16

TRACE ORGANICS

Access Number: 501982
Source: STAR CARTING, NEW HYDE PK. - NORTH INSIDE DRYWELL
Matrix: WATER
Date Sampled: 06/25/85
Date of Report: 07/26/85

VOLATILE HALOGENATED	MRC (ug/l)	RESULT (ug/l)
TRICHLOROFLUOROMETHANE	1	1
METHYLENE CHLORIDE		
1,1,2-TRICHLOROTRIFLUOROETHANE	6	< 6
1,1-DICHLOROETHYLENE		
• c & t-1,2-DICHLOROETHYLENE	13	2800
1,1-DICHLOROETHANE	150	< 150
CHLOROFORM	10	< 10
1,1,1-TRICHLOROETHANE	1	1
CARBON TETRACHLORIDE	1	< 1
• TRICHLOROETHYLENE	1	2300
BROMODICHLOROMETHANE	1	< 1
c-1,3-DICHLOROPROPENE		
DIBROMOCHLOROMETHANE	1	< 1
1,1,2-TRICHLOROETHANE	1	< 1
1,2-DIBROMOETHANE	10	< 10
• TETRACHLOROETHYLENE	1	180
BROMOFORM	1	< 1

VOLATILE AROMATICS	MRC (ug/l)	RESULT (ug/l)
• BENZENE	3	6
• TOLUENE	4	120
CHLOROBENZENE	4	< 4
• ETHYLBENZENE	4	14
• XYLENE (o,m,p)	4	120
DICHLOROBENZENE (o,m,p)	8	18

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

DETECTED BY GC/MS

C-CHCLCHCL
CHCLCCL2
CCL2CCL2
TOLUENE
BENZENE
ETHYL BENZENE

JUL 29 1985

REPORT
EXAMINATION OF INDUSTRIAL
HAZARDOUS WASTES
Laboratories and Research
County Department of Health

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

Reference 24
Page 4 of 16 6257✓

Field No. VN05

Information (Please Print)

Premises: Stan Carting
Address: 4 Denton Ave New Hyde Park
Town:
Collection Point: Middle North dry well

	Month	Day	Year
Date Collected	6	25	85
Date Received	JUN 25	1985	8
Date Reported			8
Collection Time	11:00am		
Collected By:	O. Nyzl		

Examiner's Comments:

NYS max. allowable concentration

Bureau:
1 ☒ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☒ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

Check	Metals		Result	Check	Non-Metals		Result
1	Aluminum	2.0 mg/l	5.4 •	15	Chloride	mg/l	
2	Arsenic	0.05 mg/l	<0.005	16	Cyanide	mg/l	
3	Barium	2.0 mg/l	<0.5	17	Fluoride	mg/l	
4	Cadmium	0.02 mg/l	0.140 •	18	MBAS	mg/l	
5	Chromium, Total	0.10 mg/l	0.17 •	19	pH 6.5-8.5		only samples
6	Copper	1.0 mg/l	1.16 •	20	Phenols	mg/l	
7	Iron, Total	0.6 mg/l	71.0 •	21	Solids, Suspended	mg/l	
8	Lead	0.05 mg/l	3.5 •	22	Solids, Total Diss. recs	mg/l	250
9	Manganese	0.6 mg/l	1.01 •	23	Sulfate	mg/l	
10	Mercury	0.004 mg/l		24	Ammonia nitrogen	mg/l	
11	Nickel	2.0 mg/l	0.21	25	Kjeldahl nitrogen	mg/l	
12	Selenium	0.04 mg/l	<0.005	26	Nitrite nitrogen	mg/l	
13	Silver	0.1 mg/l		27	Nitrate nitrogen	mg/l	
14	Zinc	5.1 mg/l	4.4	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		Result
29	Chromium hex.	mg/l	
30	Oil + Grease		340
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

Examiner's Comments

NASSAU COUNTY DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 501984
Source: STAR CARTING, NHP; OUTSIDE NORTH EAST DRY WELL
Matrix: WATER
Date Sampled: 6/25/85
Date of Report: 07/11/85

VOLATILE HALOGENATED	MRC (ug/l)		RESULT (ug/l)
TRICHLOROFLUOROMETHANE	1	-------	< 1
METHYLENE CHLORIDE			
1,1,2-TRICHLOROTRIFLUOROETHANE	6	-------	< 6
1,1-DICHLOROETHYLENE			
c & t-1,2-DICHLOROETHYLENE	12	-------	< 12
1,1-DICHLOROETHANE	1	-------	< 1
CHLOROFORM	1	-------	< 1
1,1,1-TRICHLOROETHANE	1	-------	< 1
CARBON TETRACHLORIDE	1	-------	< 1
TRICHLOROETHYLENE	1	-------	< 1
BROMODICHLOROMETHANE	1	-------	< 1
c-1,3-DICHLOROPROPENE			
DIBROMOCHLOROMETHANE	1	-------	< 1
1,1,2-TRICHLOROETHANE	1	-------	< 1
1,2-DIBROMOETHANE	1	-------	< 1
TETRACHLOROETHYLENE	1	-------	< 1
BROMOFORM	1	-------	< 1

VOLATILE AROMATICS	MRC (ug/l)		RESULT (ug/l)
BENZENE	4	------	< 4
TOLUENE	4	------	< 4
CHLOROBENZENE	4	------	< 4
ETHYLBENZENE	4	------	< 4
XYLENE (o,m,p)	4	------	< 4
DICHLOROBENZENE (o,m,p)	8	------	< 8

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

FEB 12 1995

REPORT
EXAMINATION OF INDUSTRIAL
ARDOUS WASTES
Laboratories and Research
County Department of Health

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

Reference 24
Page 6 of 16

Lab. No. - 6259

Field No. UN107

Information (Please Print)

Star Cartage
94 Denton Ave
New Hyde Park
Outside NE dry well

	Month	Day	Year
Date Collected	6	25	85
Date Received	JUN 25 1985		8
Date Reported			8

Collection Time 11:40 am

Collected By: UN[illegible]

Comments:

NVS
Max. allowable concentration

Bureau:
1 ☑ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☑ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

Metals		Result	Check	Non-Metals		Result
Aluminum	2.0 mg/l	<0.5	15	Chloride	mg/l	
Arsenic	0.05 mg/l	<0.005	16	Cyanide	mg/l	
Barium	2.0 mg/l	<0.5	17	Fluoride	mg/l	
Cadmium	0.02 mg/l	0.002	18	MBAS	mg/l	
Chromium, Total	0.10 mg/l	0.02	19	pH	6.5-8.5	6.7
Copper	1.0 mg/l	0.07	20	Phenols	mg/l	
Iron, Total	0.6 mg/l	0.92	21	Solids, Suspended	mg/l	
Lead	0.05 mg/l	0.04	22	Solids, Total Diss. 1000	mg/l	122
Manganese	0.6 mg/l	<0.05	23	Sulfate	mg/l	
Mercury	0.004 mg/l		24	Ammonia nitrogen	mg/l	
Nickel	2.0 mg/l	0.07	25	Kjeldahl nitrogen	mg/l	
Selenium	0.04 mg/l	<0.005	26	Nitrite nitrogen	mg/l	
Silver	0.1 mg/l		27	Nitrate nitrogen	mg/l	
Zinc	5.1 mg/l	0.18	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent	Result
29	Chromium hex. mg/l	
30	0.1 + Grease 15	<10
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		

Comments

NASSAU COUNTY DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 501983
Source: STAR CARTING, NEW HYDE PARK; OUTSIDE SOUTHERN DRY WE
Matrix: WATER
Date Sampled: 6/25/85
Date of Report: 07/15/85

North or South 2

VOLATILE HALOGENATED	MRC (ug/l)		RESULT (ug/l)
TRICHLOROFLUOROMETHANE	1	-------	< 1
METHYLENE CHLORIDE			
1,1,2-TRICHLOROTRIFLUOROETHANE	6	-------	< 6
1,1-DICHLOROETHYLENE			
c & t-1,2-DICHLOROETHYLENE	12	-------	< 12
1,1-DICHLOROETHANE	25	-------	< 25
CHLOROFORM	1	-------	< 1
1,1,1-TRICHLOROETHANE	1	-------	< 1
CARBON TETRACHLORIDE	1	-------	< 1
TRICHLOROETHYLENE	1	-------	< 1
BROMODICHLOROMETHANE	1	-------	< 1
c-1,3-DICHLOROPROPENE			
DIBROMOCHLOROMETHANE	1	-------	< 1
1,1,2-TRICHLOROETHANE	1	-------	< 1
1,2-DIBROMOETHANE	1	-------	< 1
TETRACHLOROETHYLENE	1	-------	< 1
BROMOFORM	1	-------	< 1

VOLATILE AROMATICS	MRC (ug/l)		RESULT (ug/l)
BENZENE	4	------	< 4
TOLUENE	4	------	7
CHLOROBENZENE	4	------	< 4
ETHYLBENZENE	4	------	< 4
XYLENE (o,m,p)	4	------	< 4
DICHLOROBENZENE (o,m,p)	8	------	< 8

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

REPORT
EXAMINATION OF INDUSTRIAL
ARDOUS WASTES
of Laboratories and Research
County Department of Health

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

Lab. No.
Reference 24
Page 8 of 16
6258 ✓
Field No. VN106

formation (Please Print)		Month	Day	Year
ises	Star Carting	Date Collected	6	25	85
es	9 Denton Ave	Date Received	JUN 25	1985	8
	New Hyde Park	Date Reported			8
ction Point	outside South dry well West	Collection Time	11 : 20am		
		Collected By:	V. Nozzi		

ple Comments:

NYS max. allowable concentration

Bureau:
1 ☑ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☑ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

Metals			Result	Check	Non-Metals		Result
Aluminum	2.0	mg/l	1.5	15	Chloride	mg/l	
Arsenic	0.05	mg/l	<0.005	16	Cyanide	mg/l	
Barium	2.0	mg/l	<0.5	17	Fluoride	mg/l	
Cadmium	0.02	mg/l	0.033	18	MBAS	mg/l	
Chromium, Total	0.10	mg/l	0.48	19	pH		OILY SAMPLE
Copper	1.0	mg/l	0.16	20	Phenols	mg/l	
Iron, Total	0.6	mg/l	13.2	21	Solids, Suspended	mg/l	
Lead	0.05	mg/l	0.40	22	Solids, Total Diss. 1000	mg/l	590
Manganese	0.6	mg/l	0.36	23	Sulfate	mg/l	
Mercury	0.004	mg/l		24	Ammonia nitrogen	mg/l	
Nickel	2.0	mg/l	0.10	25	Kjeldahl nitrogen	mg/l	
Selenium	0.04	mg/l	<0.005	26	Nitrite nitrogen	mg/l	
Silver	0.1	mg/l		27	Nitrate nitrogen	mg/l	
Zinc	5.0	mg/l	0.45	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		Result
29	Chromium hex.	mg/l	
30	Oil + Grease	15	190
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

ineds Comments

Y REPORT
L EXAMINATION OF INDUSTRIAL
AZARDOUS WASTES
of Laboratories and Research
County Department of Health

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

Reference 24
Page 9 of 16
6260

Field No. UN108

urce Information (Please Print)

		Month	Day	Year
Date Collected		6	25	85
Date Received	JUN 25 1985			8
Date Reported				8

mi Star Center
dress 44 Vanderbilt Ave
m New Hyde Park
lection Point outside drain

Collection Time 12:00 pm
Collected By: DHaya

mpler's Comments: Metals, if possible.

Survey:
1 ☑ Land Resources Management
0 ☐ Other (specify)

Sample Type:
A ☑ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

	Metals		Result	Check	Non-Metals		Result
	Aluminum	mg/l		15	Chloride	mg/l	
	Arsenic	mg/l		16	Cyanide	mg/l	
	Barium	mg/l		17	Fluoride	mg/l	
	Cadmium	mg/l		18	MBAS	mg/l	
5	Chromium, Total	mg/l		19	pH		6.5
	Copper	mg/l		20	Phenols	mg/l	
	Iron, Total	mg/l		21	Solids, Suspended	mg/l	
	Lead	mg/l		22	Solids, Total Diss.	mg/l	205
	Manganese	mg/l		23	Sulfate	mg/l	
0	Mercury	mg/l		24	Ammonia nitrogen	mg/l	
	Nickel	mg/l		25	Kjeldahl nitrogen	mg/l	
	Selenium	mg/l		26	Nitrite nitrogen	mg/l	
3	Silver	mg/l		27	Nitrate nitrogen	mg/l	
	Zinc	mg/l		28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		Result
29	Chromium hex.	mg/l	
30	Oil + Grease	15	100
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

aminer's Comments No METALS Bottle Submitted

NASSAU COUNTY DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 502319
Source: STAR CARTING, GARDEN CITY PK. - S.E. DRYWELL
Matrix: WATER
Date Sampled: 07/22/85
Date of Report: 07/26/85

VOLATILE HALOGENATED	MRC (ug/l)		RESULT (ug/l)
TRICHLOROFLUOROMETHANE	1	-------	NA
METHYLENE CHLORIDE			
1,1,2-TRICHLOROTRIFLUOROETHANE	6	-------	< 6
1,1-DICHLOROETHYLENE			
c & t-1,2-DICHLOROETHYLENE	18	-------	< 18
1,1-DICHLOROETHANE	15	-------	< 15
CHLOROFORM	1	-------	< 1
1,1,1-TRICHLOROETHANE	1	-------	< 1
CARBON TETRACHLORIDE	1	-------	< 1
TRICHLOROETHYLENE	1	-------	< 1
BROMODICHLOROMETHANE	1	-------	< 1
c-1,3-DICHLOROPROPENE			
DIBROMOCHLOROMETHANE	1	-------	< 1
1,1,2-TRICHLOROETHANE	1	-------	< 1
1,2-DIBROMOETHANE	1	-------	< 1
TETRACHLOROETHYLENE	1	-------	< 1
BROMOFORM	1	-------	< 1

VOLATILE AROMATICS	MRC (ug/l)		RESULT (ug/l)
BENZENE	3	------	< 3
TOLUENE	4	------	< 4
CHLOROBENZENE	4	------	< 4
ETHYLBENZENE	4	------	< 4
XYLENE (o,m,p)	4	------	< 4
DICHLOROBENZENE (o,m,p)	8	------	< 8

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

B

RATORY REPORT
ICAL EXAMINATION OF INDUSTRIAL
ND HAZARDOUS WASTES
ivision of Laboratories and Research
ass u County Department of Health

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

Reference 24
Page 11 of 16 7631✓

Field No. UN127

ource Information (Please Print)

emises: Star Casting
ddress: Denton Ave
ow: Garden City PK
llection Point: SE drywell (outdoor)

	Month	Day	Year
Date Collected	7	22	85
Date Received	JUL 22 1985		8
Date Reported			8
Collection Time	12:30 pm		
Collected By:	V. Nizzo		

mpler's Comments:

Bureau
1 ☑ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☑ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

Check	Metals		Result	Check	Non-Metals		Result
	luminum	mg/l	<0.5	15	Chloride	mg/l	
	rsenic	mg/l	0.006	16	Cyanide	mg/l	
	Barium	mg/l	<0.5	17	Fluoride	mg/l	
	dmium	mg/l	0.006	18	MBAS	mg/l	
	Chromium, Total	mg/l	<0.01	19	pH	6.5-8.5	6.4
	pper	mg/l	<0.05	20	Phenols	mg/l	
	Iron, Total	mg/l	2.5	21	Solids, Suspended	mg/l	
	ad	mg/l	0.03	22	Solids, Total Diss.	mg/l	320
	Manganese	mg/l	0.08	23	Sulfate	mg/l	
	rcury	mg/l		24	Ammonia nitrogen	mg/l	
	Nickel	mg/l	0.08	25	Kjeldahl nitrogen	mg/l	
	enium	mg/l	<0.0005	26	Nitrite nitrogen	mg/l	
	Silver	mg/l		27	Nitrate nitrogen	mg/l	
	c	mg/l	0.12	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		Result
29	Chromium hex.	mg/l	
30	Oil + Grease	mg/l	67
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

iner's Comments

EET

ATION FOR TRACE ORGANIC
WATER, HAZARDOUS WASTES
ES

oratories and Research

Department of Health

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

502319

Reference 24
Page 12 of 16

Field No. UN 127

N No. (Public Water Supply Only)

(Please Print)

Star Casting
Denton Ave
Garden City PK.

SE drywell

Outdoors

Well No.

	Month	Day	Year
Date Collected	7	22	85
Date Received	7	22	8 14
Date Reported			8
Collection Time	12:30 pm		
Collected By:	V. Nigro		

ments:

ple on ice

Bureau

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

SAMPLE TYPE

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

ANALYSIS TYPE

le halogenated hydrocarbons	I	Phthalates
eable halogenated hydrocarbons - gases	J	Herbicides
le nonhalogenated hydrocarbons	K	Nitrosamines
ogenated pesticides	L	Benzidines
orinated biphenyls	M	Nitroaromatic hydrocarbons
ycyclic aromatic hydrocarbons	N	Haloethers
des + ketones	O	Chlorinated hydrocarbons
anols	P	Other (specify)

Comments:

ATORY REPORT
MICAL EXAMINATION OF INDUSTRIAL
D HAZARDOUS WASTES
ision of Laboratories and Research
Nassau County Department of Health

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

Reference 24
Page 13 of 16 7632

Field No. UN128

Source Information (Please Print)

Premises: Star Casting
Address: Denton Ave
Town: Garden City Pk
Collection Point: SW dry well outside

	Month	Day	Year
Date Collected	7	22	85
Date Received	JUL 22 1985		8
Date Reported			8

Collection Time: 12 : 25 pm
Collected By: V. Nigel

Sampler's Comments:

Bureau:
1 ☑ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☑ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

N.Y.S. Max Allowable concentration

CHEMICAL EXAMINATION

Check	Metals			Result	Check	Non-Metals		Result
1	Aluminum	2.0	mg/l	3.3 ●	15	Chloride	mg/l	
2	Arsenic	0.05	mg/l	0.007	16	Cyanide	mg/l	
3	Barium	2.0	mg/l	<0.5	17	Fluoride	mg/l	
4	Cadmium	0.02	mg/l	0.020	18	MBAS	mg/l	
5	Chromium, Total	0.10	mg/l	<0.01	19	pH 6.5 – 8.5		6.1
6	Copper	1.0	mg/l	0.66	20	Phenols	mg/l	
7	Iron, Total	0.6	mg/l	7.60 ●	21	Solids, Suspended	mg/l	148
8	Lead	0.05	mg/l	0.73 ●	22	Solids, Total Diss.	mg/l	
9	Manganese	0.6	mg/l	0.33	23	Sulfate	mg/l	
10	Mercury	0.004	mg/l		24	Ammonia nitrogen	mg/l	
11	Nickel	2.6	mg/l	0.11	25	Kjeldahl nitrogen	mg/l	
12	Selenium	0.04	mg/l	<0.005	26	Nitrite nitrogen	mg/l	
13	Silver	0.1	mg/l		27	Nitrate nitrogen	mg/l	
14	Zinc	5.1	mg/l		28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		Result
29	Chromium hex.	mg/l	
30	Oil + Grease	15	51 ●
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

Examiner's Comments

Reference 24
Page 14 of 16

B

ABORATORY REPORT
HEMICAL EXAMINATION OF INDUSTRIAL
N HAZARDOUS WASTES
ivision of Laboratories and Research
Na u County Department of Health

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

Lab. No. 7633

Field No. UN129

ource Information (Please Print)

			Month	Day	Year
re ses	Star Carting	Date Collected	7	22	85
ddress	Denton Ave	Date Received	JUL 22 1985		8
o	Garden City PK.	Date Reported			8
ollection Point	NW drywell Outdoor	Collection Time	12:40pm		
		Collected By:	V. Nigro		

ampler's Comments:

Bureau:
1 ☑ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☑ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

NY. State allowable concentration

CHEMICAL EXAMINATION

Che	Metals		Result	Check	Non-Metals		Result
1	Aluminum 2.0	mg/l	1.3	15	Chloride	mg/l	
2	Arsenic 0.05	mg/l	0.007	16	Cyanide	mg/l	
3	Barium 2.0	mg/l	<0.5	17	Fluoride	mg/l	
4	Cadmium 0.02	mg/l	0.010	18	MBAS	mg/l	
5	Chromium, Total 0.10	mg/l	<0.01	19	pH 6.5-8.5		6.4
6	Copper 1.0	mg/l	0.12	20	Phenols	mg/l	
7	Iron, Total 0.6	mg/l	6.65	21	Solids, Suspended	mg/l	314
8	Lead 0.05	mg/l	0.28	22	Solids, Total Diss.	mg/l	
9	Manganese 0.6	mg/l	0.10	23	Sulfate	mg/l	
10	Mercury 0.004	mg/l		24	Ammonia nitrogen	mg/l	
11	Nickel 2.0	mg/l	0.10	25	Kjeldahl nitrogen	mg/l	
12	Selenium 0.04	mg/l	<0.005	26	Nitrite nitrogen	mg/l	
13	~~Silver~~ 0.1	mg/l		27	Nitrate nitrogen	mg/l	
14	Zinc 5.1	mg/l	0.34	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		Result
29	Chromium hex.	mg/l	
30	Oil + Grease 15		52
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

xa iner's Comments

RY WORKSHEET

EXAMINATION FOR TRACE ORGANIC
IT ENTS IN WATER, HAZARDOUS WASTES
LID WASTES

o Laboratories and Research

County Department of Health

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

Lab. No. 502321

Reference 24
Page 15 of 16

Field No. VN-129

N No. (Public Water Supply Only)

Information (Please Print)

s Star Carting
Denton Ave
Garden City Pk.

on Point NW dry well Well No.

	Month	Day	Year
Date Collected	7	22	85
Date Received	7	22	8 14
Date Reported			8
Collection Time	12:40 pm		
Collected By:	U. Nisw		

's Comments:

sample on ice

Bureau

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

SAMPLE TYPE

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

ANALYSIS TYPE

Purgeable halogenated hydrocarbons	I	Phthalates
rgeable halogenated hydrocarbons - gases	J	Herbicides
Purgeable nonhalogenated hydrocarbons	K	Nitrosamines
alogenated pesticides	L	Benzidines
olychlorinated biphenyls	M	Nitroaromatic hydrocarbons
Polycyclic aromatic hydrocarbons	N	Haloethers
ldehydes + ketones	O	Chlorinated hydrocarbons
Phenols	P	Other (specify)

er Comments:

Reference 24
Page 16 of 16

[illegible]IN OF CUSTODY RECORD

[illegible]sion of Laboratories and Research
[illegible]assau County Department of Health

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

Lab. No. 502321

Field No. UN129

[illegible]ce Information (Please Print)

[illegible]remises: Star Carting

[illegible]ess: Denton Ave

[illegible]: ~~[illegible]~~ Garden City, PK

[illegible]ollection Point Location: NW drywell outdoors.

[illegible]ampler's Comments:

Collection Data: 7-22-85

Collection Time: 12:40 pm

No. of Containers: 1

Type of Containers: glass

Method of Preservation: ice

Collection Procedure:

Method of Transportation to Laboratory: UN

[illegible]TAINER DISTRIBUTION — Clean sampling containers designated by field number UN129 have been issued for collection of the sample identified on this form.

	Relinquished by:		Received by:	
[illegible]ted Name	Diane DeFilippo	Date 7/22/85	Printed Name Vincent P Nigro	Date 7-22-[illegible]
Signature X	Diane DeFilippo	Time 11:45 am	Signature X Vincent P Nigro	Time 11:40 [illegible]
[illegible]ose of Transfer	~~[illegible]~~ sampling			

CUSTODY TRANSFER 1

	Relinquished by:		Received by:	
[illegible]ted Name	Vincent P Nigro	Date 7-22-85	Printed Name DIANE DE FILIPPO	Date 7/22
Signature X	Vincent P Nigro	Time 2:21 pm	Signature X Diane DeFilippo	Time 2:21 pm
[illegible]ose of Transfer	~~[illegible]~~ analysis			

CUSTODY TRANSFER 2

	Relinquished by:		Received by:	
[illegible]ted Name		Date	Printed Name	Date
Signature X		Time	Signature X	Time
[illegible]ose of Transfer				

CUSTODY TRANSFER 3

	Relinquished by:		Received by:	
[illegible]nted Name		Date	Printed Name	Date
[illegible]nature X		Time	Signature X	Time
Purpose of Transfer				

CUSTODY TRANSFER 4

	Relinquished by:		Received by:	
Printed Name		Date	Printed Name	Date
[illegible]nature X		Time	Signature X	Time
Purpose of Transfer				

REFERENCE 25

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/9 12/23/85

E

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: Leaching Pool Inside Building-NW
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: sediment sample

ANALYTICAL PARAMETERS		
111 Trichloroethane	ppb	<5
112 Trichloroethane	ppb	<5
Tetrachloroethene	ppb	38
11 Dichloroethane	ppb	<10
12 Dichloroethane	ppb	<10
11 Dichloroethene	ppb	<10
12 Dichloroethene	ppb	<10
Arsenic as As	mg/L	0.007
Barium as Ba	mg/L	0.42
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	0.04
Lead as Pb	mg/L	0.010
Mercury as Hg	mg/L	<0.001
Selenium as Se	mg/L	<0.005
Silver as Ag	mg/L	<0.01
Copper as Cu	mg/L	<0.02
Zinc as Zn	mg/L	0.80
Trichloroethylene	ppb	5

ANALYTICAL PARAMETERS

cc:Donnelly Engineering

REMARKS: Metals analysis performed on EP Extract of sample, prepared according to EP Toxicity procedure (SW-846, "Test Methods for Evaluating Solid Waste", US EPA, 1984).
This report has had additonal analytical parameters added to it. Please discard previous report of same lab number.

DIRECTOR

rpf 3141

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

Reference 25
Page 2 of 20

LAB NO. C852392/11 12/23/85

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: Leaching Pool Inside Building-SW
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: sediment sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
111 Trichloroethane	ppb	<5	
112 Trichloroethane	ppb	<5	
Tetrachloroethene	ppb	<5	
11 Dichloroethane	ppb	<10	
12 Dichloroethane	ppb	<10	
11 Dichloroethene	ppb	<10	
12 Dichloroethene	ppb	<10	
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	0.80	
Cadmium as Cd	mg/L	<0.001	
Chromium as Cr	mg/L	<0.02	
Lead as Pb	mg/L	0.011	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.01	
Copper as Cu	mg/L	<0.02	
Zinc as Zn	mg/L	0.50	
Trichloroethylene	ppb	5	

cc:Donnelly Engineering

REMARKS: Metals analysis performed on EP Extract of sample, prepared according to EP Toxicity procedure (SW-846, "Test Methods for Evaluating Solid Waste", US EPA, 1984).
This report has had additonal analytical parameters added it. Please discard previous report of same lab number.

DIRECTOR Thomas R. Gaetti

rn= 3144

ECOTEST LABORATORIES, INC. — ENVIRONMENTAL TESTING

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

LAB NO. C852392/13 12/23/85

G

Star Cartina
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: Densifier Sump
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: sediment sample

ANALYTICAL PARAMETERS		
111 Trichloroethane	ppb	<5
112 Trichloroethane	ppb	<5
Tetrachloroethene	ppb	230
11 Dichloroethane	ppb	<10
12 Dichloroethane	ppb	<10
11 Dichloroethene	ppb	<10
12 Dichloroethene	ppb	4000
Arsenic as As	mg/L	0.012
Barium as Ba	mg/L	0.80
Cadmium as Cd	mg/L	0.014
Chromium as Cr	mg/L	<0.02
Lead as Pb	mg/L	0.034
Mercury as Hg	mg/L	<0.001
Selenium as Se	mg/L	<0.005
Silver as Ag	mg/L	<0.01
Copper as Cu	mg/L	<0.02
Zinc as Zn	mg/L	2.3

ANALYTICAL PARAMETERS

Benzene	ppb	100
Toluene	ppb	200
Ethul Benzene	ppb	<10
m Xulene	ppb	<10
o+p Xulene	ppb	<10
Trichloroethulene	ppb	5400

cc:Donnelly Engineering

REMARKS: Metals analysis performed on EP Extract of sample, prepared according to EP Toxicity procedure (SW-846, "Test Methods for Evaluating Solid Waste", US EPA, 1984).
This report has had additonal analytical parameters added it. Please discard previous report of same lab number.

DIRECTOR

rn= 3145

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/14 12/23/85

H

Star Carting
94 Denton Ave.
Gdn Cty Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: Sanitary Cesspool
COLLECTED BY: RT/ETL DATE COL'D: 11/12/85 RECEIVED: 11/12/85

SAMPLE: sediment sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
111 Trichloroethane	ppb	<5	
112 Trichloroethane	ppb	<5	
Tetrachloroethene	ppb	5	
11 Dichloroethane	ppb	<10	
12 Dichloroethane	ppb	<10	
11 Dichloroethene	ppb	<5	
12 Dichloroethene	ppb	<5	
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	0.80	
Cadmium as Cd	mg/L	0.012	
Chromium as Cr	mg/L	<0.02	
Lead as Pb	mg/L	0.020	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.01	
Copper as Cu	mg/L	<0.02	
Zinc as Zn	mg/L	0.45	
Benzene	ppb	100	
Toluene	ppb	21000	
Ethyl Benzene	ppb	1300	
m Xylene	ppb	4200	
o+p Xylene	ppb	2900	
Trichloroethylene	ppb	<5	

cc: Donnelly Engineering

REMARKS: Metals analysis performed on EP Extract of sample, prepared according to EP Toxicity procedure (SW-846, "Test Methods for Evaluating Solid Waste", US EPA, 1984).
This report has had additonal analytical parameters added it. Please discard previous report of same lab number.

DIRECTOR Thomas R. Brettle

rn= 3146

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

12/23/85

LAB NO. C852392/10

E

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: Leaching Pool Inside Building-NW
COLLECTED BY: RT/ETL DATE COL'D: 11/12/85 RECEIVED: 11/12/85

SAMPLE: Liquid Sample

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS		
111 Trichloroethane	ppb	<1
112 Trichloroethane	ppb	<1
Tetrachloroethene	ppb	<1
11 Dichloroethane	ppb	<2
12 Dichloroethane	ppb	<2
11 Dichloroethene	ppb	<2
12 Dichloroethene	ppb	<2
Arsenic as As	mg/L	<0.005
Barium as Ba	mg/L	1.0
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	1.1
Lead as Pb	mg/L	0.026
Mercury as Hg	mg/L	<0.001
Selenium as Se	mg/L	<0.005
Silver as Ag	mg/L	<0.01
Copper as Cu	mg/L	<0.02
Zinc as Zn	mg/L	0.20
Trichloroethylene	ppb	<1

cc: Donnelly Engineering

REMARKS: Analysis for metals performed on samples filtered through 0.45 um filter.

This report has had additonal analytical parameters added it. Please discard previous report of same lab number.

DIRECTOR Thomas R. Smith

rn= 3142

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/10

12/04/85

E

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: Leaching Pool Inside Building-NW
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample (Total Sample)

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L	0.051	
Barium as Ba	mg/L	4.0	
Cadmium as Cd	mg/L	0.72	
Chromium as Cr	mg/L	9.0	
Lead as Pb	mg/L	9.0	
Mercury as Hg	mg/L	0.059	
Selenium as Se	mg/L	<0.025	
Silver as Ag	mg/L	0.06	
Copper as Cu	mg/L	8.4	
Zinc as Zn	mg/L	23	

cc:Donnelly Engineering

REMARKS:

DIRECTOR

rn= 3143

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/15

12/23/85

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: Sanitary Cesspool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample

ANALYTICAL PARAMETERS		
111 Trichloroethane	ppb	<1
112 Trichloroethane	ppb	<1
Tetrachloroethene	ppb	<1
11 Dichloroethane	ppb	<2
12 Dichloroethane	ppb	<2
11 Dichloroethene	ppb	<2
12 Dichloroethene	ppb	<2
Arsenic as As	mg/L	<0.005
Barium as Ba	mg/L	0.48
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	<0.02
Lead as Pb	mg/L	<0.005
Mercury as Hg	mg/L	<0.001
Selenium as Se	mg/L	<0.005
Silver as Ag	mg/L	<0.01
Copper as Cu	mg/L	0.03
Zinc as Zn	mg/L	0.12

ANALYTICAL PARAMETERS		
m Dichlorobenzene	ppb	<2
o Dichlorobenzene	ppb	<2
p Dichlorobenzene	ppb	<2

Benzene	ppb	3
Toluene	ppb	500
Ethyl Benzene	ppb	90
m Xylene	ppb	350
o+p Xylene	ppb	280
Trichloroethylene	ppb	<1

cc: Donnelly Engineering

REMARKS: Analysis for metals performed on samples filtered through 0.45 um filter.

This report has had additional analytical parameters added it. Please discard previous report of same lab number.

DIRECTOR

rn= 3147

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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

LAB NO. C852392/15 12/04/85

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: Sanitaru Cesspool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample (Total Sample)

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L	<0.025	
Barium as Ba	mg/L	0.32	
Cadmium as Cd	mg/L	0.016	
Chromium as Cr	mg/L	0.04	
Lead as Pb	mg/L	0.40	
Mercuru as Hg	mg/L	0.0056	
Selenium as Se	mg/L	<0.025	
Silver as Ag	mg/L	<0.02	
Copper as Cu	mg/L	1.1	
Zinc as Zn	mg/L	0.48	

cc:Donnellu Engineering

REMARKS:

DIRECTOR

rn= 3148

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/3

12/23/85

B

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: NE Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: sediment sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
111 Trichloroethane	ppb	<5	
112 Trichloroethane	ppb	<5	
Tetrachloroethene	ppb	<5	
11 Dichloroethane	ppb	<10	
12 Dichloroethane	ppb	<10	
11 Dichloroethene	ppb	<10	
12 Dichloroethene	ppb	<10	
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	0.42	
Cadmium as Cd	mg/L	0.001	
Chromium as Cr	mg/L	<0.02	
Lead as Pb	mg/L	0.048	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.0[illegible]	
Copper as Cu	mg/L	<0.02	
Zinc as Zn	mg/L	0.95	
Trichloroethylene	ppb	<5	

cc:Donnelly Engineering

REMARKS: Metals analysis performed on EP Extract of sample, prepared according to EP Toxicity procedure (SW-846, "Test Methods for Evaluating Solid Waste", US EPA, 1984).
This report has had additonal analytical parameters added it. Please discard previous report of same lab number.

DIRECTOR Thomas R. [illegible]

rn= 3132

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

LAB NO. C852392/1 12/23/85

Star Cartine
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

A

SOURCE OF SAMPLE: SE Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D: 11/12/85 RECEIVED: 11/12/85

SAMPLE: sediment sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
111 Trichloroethane	ppb	<5	
112 Trichloroethane	ppb	<5	
Tetrachloroethene	ppb	<5	
11 Dichloroethane	ppb	<10	
12 Dichloroethane	ppb	<10	
11 Dichloroethene	ppb	<10	
12 Dichloroethene	ppb	<10	
Arsenic as As	mg/L	<0.003	
Barium as Ba	mg/L	0.39	
Cadmium as Cd	mg/L	0.002	
Chromium as Cr	mg/L	<0.02	
Lead as Pb	mg/L	0.021	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.01	
Copper as Cu	mg/L	<0.02	
Zinc as Zn	mg/L	0.60	
Benzene	ppb	<10	
Toluene	ppb	140	
Ethyl Benzene	ppb	55	
m Xylene	ppb	130	
o+p Xylene	ppb	110	
Trichloroethylene	ppb	<5	

cc: Donnelly Engineering

REMARKS: Metals analysis performed on EP Extract of sample, prepared according to EP Toxicity procedure (SW-846, "Test Methods for Evaluating Solid Waste", US EPA, 1984).
This report has had additional analytical parameters added to it. Please discard previous report of same lab number.

DIRECTOR

rm= 3129

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

12/23/85

LAB NO. C852392/5

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: NW Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: sediment sample

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

111 Trichloroethane	ppb	<5
112 Trichloroethane	ppb	<5
Tetrachloroethene	ppb	<5
11 Dichloroethane	ppb	<10
12 Dichloroethane	ppb	<10
11 Dichloroethene	ppb	<10
12 Dichloroethene	ppb	<10
Arsenic as As	mg/L	<0.005
Barium as Ba	mg/L	0.17
Cadmium as Cd	mg/L	0.007
Chromium as Cr	mg/L	<0.02
Lead as Pb	mg/L	0.060
Mercury as Hg	mg/L	<0.001
Selenium as Se	mg/L	<0.005
Silver as Ag	mg/L	<0.01
Copper as Cu	mg/L	<0.02
Zinc as Zn	mg/L	1.2
Trichloroethylene	ppb	<5

cc:Donnelly Engineering

REMARKS: Metals analysis performed on EP Extract of sample, prepared according to EP Toxicity procedure (SW-846, "Test Methods for Evaluating Solid Waste", US EPA, 1984).
This report has had additonal analytical parameters added to it. Please discard previous report of same lab number.

DIRECTOR Thomas R. [illegible]

rns 3135

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/7 11/23/85

Star Carting
94 Denton Ave.
Gdn Cty Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: SW Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D: 11/12/85 RECEIVED: 11/12/85

SAMPLE: sediment sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
111 Trichloroethane	ppb	<5	
112 Trichloroethane	ppb	<5	
Tetrachloroethene	ppb	<5	
11 Dichloroethane	ppb	<10	
12 Dichloroethane	ppb	<10	
11 Dichloroethene	ppb	<10	
12 Dichloroethene	ppb	<10	
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	0.22	
Cadmium as Cd	mg/L	<0.001	
Chromium as Cr	mg/L	<0.02	
Lead as Pb	mg/L	0.005	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.01	
Copper as Cu	mg/L	<0.02	
Zinc as Zn	mg/L	0.38	
Trichloroethylene	ppb	<5	

cc: Donnelly Engineering

REMARKS: Metals analysis performed on EP Extract of sample, prepared according to EP Toxicity procedure (SW-846, "Test Methods for Evaluating Solid Waste", US EPA, 1984).
This report has had additional analytical parameters added to it. Please discard previous report of same lab number.

DIRECTOR [signature]

rp= 3138

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

12/23/85

B

LAB NO. C852392/4

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: NE Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

111 Trichloroethane	ppb	<1
112 Trichloroethane	ppb	<1
Tetrachloroethene	ppb	<1
11 Dichloroethane	ppb	<2
12 Dichloroethane	ppb	<2
11 Dichloroethene	ppb	<2
12 Dichloroethene	ppb	<2
Arsenic as As	mg/L	<0.005
Barium as Ba	mg/L	0.20
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	<0.02
Lead as Pb	mg/L	<0.005
Mercury as Hg	mg/L	<0.001
Selenium as Se	mg/L	<0.005
Silver as Ag	mg/L	<0.01
Copper as Cu	mg/L	<0.02
Zinc as Zn	mg/L	0.13
Trichloroethulene	ppb	<1

cc:Donnelly Engineering

REMARKS: Analysis for metals performed on samples filtered through 0.45 um filter.

This report has had additonal analytical parameters add it. Please discard previous report of same lab number

DIRECTOR Thomas R. [illegible]

3133

ECOTEST LABORATORIES, INC. — ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/4 12/04/85

B

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: NE Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample (Total sample)

ANALYTICAL PARAMETERS		
Arsenic as As	mg/L	0.10
Barium as Ba	mg/L	2.8
Cadmium as Cd	mg/L	0.29
Chromium as Cr	mg/L	0.60
Lead as Pb	mg/L	13
Mercury as Hg	mg/L	0.045
Selenium as Se	mg/L	<0.025
Silver as Ag	mg/L	<0.02
Copper as Cu	mg/L	7.6
Zinc as Zn	mg/L	30

ANALYTICAL PARAMETERS

cc:Donnelly Engineering

REMARKS:

DIRECTOR

rn= 3134

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/2 12/23/85

Star Carting
94 Denton Ave.
Gdn Cty Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: SE Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
111 Trichloroethane	ppb	<1	
112 Trichloroethane	ppb	<1	
Tetrachloroethene	ppb	<1	
11 Dichloroethane	ppb	<2	
12 Dichloroethane	ppb	<2	
11 Dichloroethene	ppb	<2	
12 Dichloroethene	ppb	<2	
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	0.37	
Cadmium as Cd	mg/L	0.001	
Chromium as Cr	mg/L	<0.02	
Lead as Pb	mg/L	<0.005	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.01	
Copper as Cu	mg/L	<0.02	
Zinc as Zn	mg/L	0.31	
Trichloroethylene	ppb	<1	

cc:Donnelly Engineering

REMARKS: Analysis for metals performed on samples filtered through 0.45 um filter.

This report has had additonal analytical parameters added it. Please discard previous report of same lab number.

DIRECTOR Thomas R. Scutte

rnr 3130

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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

LAB NO. C852392/2 12/04/85

A

Star Carting
94 Denton Ave.
Gdn Cty Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: SE Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample (Total sample)

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L	0.19	
Barium as Ba	mg/L	4.2	
Cadmium as Cd	mg/L	0.64	
Chromium as Cr	mg/L	1.2	
Lead as Pb	mg/L	10	
Mercury as Hg	mg/L	0.024	
Selenium as Se	mg/L	<0.025	
Silver as Ag	mg/L	0.04	
Copper as Cu	mg/L	6.4	
Zinc as Zn	mg/L	90	

cc:Donnelly Engineering

REMARKS:

DIRECTOR Thomas R. Greuth

rn= 3131

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/6 12/23/85

C

Star Carting
94 Denton Ave.
Gdn Cty Pk. NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: NW Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
111 Trichloroethane	ppb	1	
112 Trichloroethane	ppb	<1	
Tetrachloroethene	ppb	<1	
11 Dichloroethane	ppb	<2	
12 Dichloroethane	ppb	<2	
11 Dichloroethene	ppb	<2	
12 Dichloroethene	ppb	<2	
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	0.17	
Cadmium as Cd	mg/L	<0.001	
Chromium as Cr	mg/L	<0.02	
Lead as Pb	mg/L	<0.005	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.01	
Copper as Cu	mg/L	<0.02	
Zinc as Zn	mg/L	0.14	
Trichloroethylene	ppb	<1	
m Dichlorobenzene	ppb	<2	
o Dichlorobenzene	ppb	<2	
p Dichlorobenzene	ppb	<2	

cc:Donnelly Engineering

REMARKS: Analysis for metals performed on samples filtered through 0.45 um filter.

This report has had additonal analytical parameters add it. Please discard previous report of same lab number.

DIRECTOR Thomas R. Scott

rpt 3136

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

12/04/85

C

LAB NO. C852392/6

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: NW Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D: 11/12/85 RECEIVED: 11/12/85

SAMPLE: Liquid Sample (Total Sample)

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

Arsenic as As	mg/L	<0.025
Barium as Ba	mg/L	1.2
Cadmium as Cd	mg/L	0.064
Chromium as Cr	mg/L	0.22
Lead as Pb	mg/L	3.4
Mercury as Hg	mg/L	0.0077
Selenium as Se	mg/L	<0.025
Silver as Ag	mg/L	<0.02
Copper as Cu	mg/L	1.2
Zinc as Zn	mg/L	50

cc: Donnelly Engineering

REMARKS:

DIRECTOR Thomas Bonte

rn= 3137

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/8 12/23/85

D

Star Carting
94 Denton Ave.
Gdn Ctu Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: SW Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D: 11/12/85 RECEIVED: 11/12/85

SAMPLE: Liquid Sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
111 Trichloroethane	ppb	<1	
112 Trichloroethane	ppb	<1	
Tetrachloroethene	ppb	<1	
11 Dichloroethane	ppb	<2	
12 Dichloroethane	ppb	<2	
11 Dichloroethene	ppb	<2	
12 Dichloroethene	ppb	<2	
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	0.50	
Cadmium as Cd	mg/L	<0.001	
Chromium as Cr	mg/L	0.07	
Lead as Pb	mg/L	0.006	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.01	
Copper as Cu	mg/L	<0.02	
Zinc as Zn	mg/L	0.43	
Trichloroethylene	ppb	<1	

cc: Donnelly Engineering

REMARKS: Analysis for metals performed on samples filtered through 0.45 um filter.

This report has had additional analytical parameters added to it. Please discard prev ous report of same lab number.

DIRECTOR

rn= 3139

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C852392/8 12/04/85

Star Carting
94 Denton Ave.
Gdn Cty Pk., NY
ATTN: Joe Bonsera

SOURCE OF SAMPLE: SW Leaching Pool
COLLECTED BY: RT/ETL DATE COL'D:11/12/85 RECEIVED:11/12/85

SAMPLE: Liquid Sample (Total Sample)

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L	0.031	
Barium as Ba	mg/L	4.6	
Cadmium as Cd	mg/L	0.12	
Chromium as Cr	mg/L	1.8	
Lead as Pb	mg/L	3.4	
Mercury as Hg	mg/L	0.01	
Selenium as Se	mg/L	<0.025	
Silver as Ag	mg/L	<0.02	
Copper as Cu	mg/L	2.2	
Zinc as Zn	mg/L	22	

cc:Donnelly Engineering

REMARKS:

DIRECTOR Thomas J. Grattan

rn= 3140

REFERENCE 26

New York State Department of Environmental Conservation
Div. of Environmental Enforcement
202 Mamaroneck Ave., Room 304
White Plains, N.Y. 10601-5381

Reference 26
Page 1 of 2

March 2, 1988

Thomas C. Jorling
Commissioner

Star Carting Company
94 Denton Avenue
Garden City Park, New York 11530

CERTIFIED MAIL/RRR

File

Re: Star Carting Company
Site #130039

Dear Sirs:

New York State, through the efforts of the Department of Environmental Conservation ("DEC") has documented a release and/or threatened release of "hazardous substances" as defined by the Comprehensive Environmental Response; Compensation and Liability Act, 42 USC § 9601 et seq. ("CERCLA") at property know as Star Carting Company in the Town of North Hempstead, County of Nassau, State of New York (CERCLA was amended by the Superfund Amendments and Reauthorization Act of 1986 ("SARA"). The law, as amended, is hereinafter referred to as "CERCLA").

Therefore, in accordance with CERCLA, 42 U.S.C. § 9612, the State of New York hereby asserts a CERCLA claim against you based upon information that indicates you may be a responsible party as a current or past owner or operator of the site.

Responsible parties under CERCLA include current and past owners or operators, and persons who generated the substances or were involved in transport, treatment, or disposal of them. Under CERCLA, responsible parties are jointly and severally liable for money expended by the State for necessary corrective action at the site; including but not limited to investigation, planning, cleanup, and enforcement.

The State intends to insure that the full extent of contamination at and around the site is thoroughly investigated and studied. It then intends to insure that the contamination is remediated. This letter is sent to afford you the opportunity to undertake these activities. Therefore, the State requests that you commit to the following:

(Continued)

1. Perform all further on and off-site, field investigations, laboratory analyses, and other work necessary to fully assess the extent of contamination at the site, the threat of further release of contaminants, and the nature and extent of harm to the environment and public health caused thereby.

2. Evaluate the feasibility of alternative remedial programs.

3. Design an appropriate remedial program.

4. Perform all necessary remedial work at the site to adequately prevent the further migration of contaminants, and cleanup to acceptable levels all contaminants that have been released from the site.

5. Reimburse the State for all damages to natural resources caused by such contamination.

6. Reimburse the State for its response, removal and remediation costs.

This site is being considered for treatment as a New York State Superfund site, in which event, if you do not satisfy this claim within 60 days of the date of this letter, the State will undertake investigation and remediation of the site.

Furthermore, the State will institute appropriate legal action to recover its past and future response, removal and remediation costs as well as damages for harm to natural resources.

Please direct your reply or any questions you may have to the undersigned. The telephone number of this office is (914)761-6660.

Very truly yours,

Louis A. Evans

Louis A. Evans,
Associate Attorney

LAE/jl

cc: J. Periconi
R. Piaggione
J. Slack
R. Becherer

REFERENCE 27

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

Reference 27
Page 1 of 22

09/15/88

LAB NO. C881915/5

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Donnelly DATE COL'D: RECEIVED: 08/16/88

SAMPLE: Soil sample, sanitary

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/Kg	<5
Freon 113	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
111 Trichloroethane	ug/Kg	10
Carbon Tetrachloride	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
Trichloroethylene	ug/Kg	5
12 Dichloropropane	ug/Kg	<10
Bromodichloromethane	ug/Kg	<5
Tetrachloroethene	ug/Kg	50
Chlorodibromomethane	ug/Kg	<5
Bromoform	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	75
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	130
m Dichlorobenzene	ug/Kg	<10
o Dichlorobenzene	ug/Kg	<10
p Dichlorobenzene	ug/Kg	<10
Arsenic as As	mg/Kg	1.7

ANALYTICAL PARAMETERS

Barium as Ba	mg/Kg	13
Cadmium as Cd	mg/Kg	0.52
Chromium as Cr	mg/Kg	4.6
Lead as Pb	mg/Kg	48
Mercury as Hg	mg/Kg	0.067
Selenium as Se	mg/Kg	0.14
Silver as Ag	mg/Kg	0.14

cc: Bob Lee, Donnelly Eng.

REMARKS: Page 1 of 2.

DIRECTOR Thomas R. [illegible]

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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

09/15/88

LAB NO. C881915/5

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Client DATE COL'D: RECEIVED: 08/16/88

SAMPLE: EP Extract of soil sanitary

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS		
Arsenic as As	mg/L*	<0.005
Barium as Ba	mg/L*	<0.05
Cadmium as Cd	mg/L*	<0.001
Chromium as Cr	mg/L*	<0.02
Lead as Pb	mg/L*	<0.005
Mercury as Hg	mg/L*	<0.001
Selenium as Se	mg/L*	<0.005
Silver as Ag	mg/L*	<0.01

cc: Bob Lee, Donnelly Eng.

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen.II). Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

Reference 27
Page 3 of 22

09/26/88

LAB NO. C882018/4

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D:08/23/88 RECEIVED:08/26/88

SAMPLE: Soil Sample, north inside sump

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/Kg	<5
Freon 113	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
Bromodichloromethane	ug/Kg	<5
Tetrachloroethene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
Bromoform	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
m Dichlorobenzene	ug/Kg	<10
o Dichlorobenzene	ug/Kg	<10
p Dichlorobenzene	ug/Kg	<10
Arsenic as As	mg/Kg	0.95

ANALYTICAL PARAMETERS

Barium as Ba	mg/Kg	2.9
Cadmium as Cd	mg/Kg	0.040
Chromium as Cr	mg/Kg	0.45
Lead as Pb	mg/Kg	1.9
Mercury as Hg	mg/Kg	0.0056
Selenium as Se	mg/Kg	0.069
Silver as Ag	mg/Kg	0.02

cc: Donnelly Eng., Bob Lee

REMARKS: Page 1 of 2.

DIRECTOR [signature]

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

09/26/88

LAB NO. C882018/4

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Client. DATE COL'D:08/23/88 RECEIVED:08/26/88

SAMPLE: EP Extract of soil north inside sump

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS		
Arsenic as As	mg/L*	<0.005
Barium as Ba	mg/L*	0.06
Cadmium as Cd	mg/L*	0.002
Chromium as Cr	mg/L*	<0.02
Lead as Pb	mg/L*	<0.005
Mercury as Hg	mg/L*	<0.001
Selenium as Se	mg/L*	<0.005
Silver as Ag	mg/L*	<0.01

cc:Donnelly Eng., Bob Lee

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen.II). Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO: C882018/5 09/26/88

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D:08/23/88 RECEIVED:08/24/88

SAMPLE: Soil Sample, south inside sump

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<5
Freon 113	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
Bromodichloromethane	ug/Kg	<5
Tetrachloroethene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
Bromoform	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
m Dichlorobenzene	ug/Kg	<10
o Dichlorobenzene	ug/Kg	<10
p Dichlorobenzene	ug/Kg	<10
Arsenic as As	mg/Kg	0.85

ANALYTICAL PARAMETERS		
Barium as Ba	mg/Kg	3.5
Cadmium as Cd	mg/Kg	0.030
Chromium as Cr	mg/Kg	2.4
Lead as Pb	mg/Kg	2.0
Mercury as Hg	mg/Kg	<0.005
Selenium as Se	mg/Kg	0.12
Silver as Ag	mg/Kg	0.03

cc: Donnelly Eng., Bob Lee

REMARKS: Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

09/26/88

LAB NO. C882018/5

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Client DATE COL'D:08/23/88 RECEIVED:08/26/88

SAMPLE: EP Extract of soil south inside sump

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS		
Arsenic as As	mg/L*	<0.005
Barium as Ba	mg/L*	0.06
Cadmium as Cd	mg/L*	<0.001
Chromium as Cr	mg/L*	<0.02
Lead as Pb	mg/L*	<0.005
Mercury as Hg	mg/L*	<0.001
Selenium as Se	mg/L*	<0.005
Silver as Ag	mg/L*	<0.01

cc: Donnelly Eng., Bob Lee

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen. II).
Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C881915/6

09/15/88

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D: RECEIVED: 08/16/88

SAMPLE: Water sample, sanitary

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	<1
Freon 113	ug/L	<1
Methylene Chloride	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
12 Dichloroethane	ug/L	<2
Trichloroethylene	ug/L	<1
12 Dichloropropane	ug/L	<2
Bromodichloromethane	ug/L	<1
Tetrachloroethene	ug/L	<1
Chlorodibromomethane	ug/L	<1
Bromoform	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	6
Ethyl Benzene	ug/L	3
m Xylene	ug/L	<2
o+p Xylene	ug/L	4
m Dichlorobenzene	ug/L	<2
o Dichlorobenzene	ug/L	<2
p Dichlorobenzene	ug/L	<2

cc: Bob Lee, Donnelly Eng.

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

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

LAB NO. C882018/3 09/26/88

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D:08/25/88 RECEIVED:08/26/88

SAMPLE: Soil Sample, inside sump under conveyor

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/Kg	<5
Freon 113	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
Bromodichloromethane	ug/Kg	<5
Tetrachloroethene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
Bromoform	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
m Dichlorobenzene	ug/Kg	<10
o Dichlorobenzene	ug/Kg	<10
p Dichlorobenzene	ug/Kg	<10
Arsenic as As	mg/Kg	3.4

ANALYTICAL PARAMETERS

Barium as Ba	mg/Kg	3.0
Cadmium as Cd	mg/Kg	0.010
Chromium as Cr	mg/Kg	3.0
Lead as Pb	mg/Kg	2.2
Mercury as Hg	mg/Kg	<0.005
Selenium as Se	mg/Kg	0.061
Silver as Ag	mg/Kg	0.12

cc:Donnelly Eng., Bob Lee

REMARKS: Page 1 of 2.

DIRECTOR Thomas R. [signature]

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

LAB NO. C882018/3

09/26/88

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Client DATE COL'D:08/25/88 RECEIVED:08/26/88

SAMPLE: EP Extract soil in sump under conveyor

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	<0.05	
Cadmium as Cd	mg/L*	<0.001	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	<0.005	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc:Donnelly Eng., Bob Lee

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen. II). Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C882018/2 09/26/88

Star Carting
94 Denton Avenue
Garden City Park, NY
ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D:08/25/88 RECEIVED:08/26/88

SAMPLE: Soil Sample, outside NE storm drain

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<5
Freon 113	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
Bromodichloromethane	ug/Kg	<5
Tetrachloroethene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
Bromoform	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
m Dichlorobenzene	ug/Kg	<10
o Dichlorobenzene	ug/Kg	<10
p Dichlorobenzene	ug/Kg	<10
Arsenic as As	mg/Kg	28

ANALYTICAL PARAMETERS		
Barium as Ba	mg/Kg	69
Cadmium as Cd	mg/Kg	7.6
Chromium as Cr	mg/Kg	30
Lead as Pb	mg/Kg	840
Mercury as Hg	mg/Kg	0.393
Selenium as Se	mg/Kg	1.1
Silver as Ag	mg/Kg	0.74

cc: Donnelly Eng., Bob Lee

REMARKS: Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C882018/2

09/26/88

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Client DATE COL'D:08/25/88 RECEIVED:08/26/88

SAMPLE: EP Extract soil outside NE storm drain

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	0.007	
Barium as Ba	mg/L*	0.44	
Cadmium as Cd	mg/L*	0.002	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	0.065	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc:Donnelly Eng., Bob Lee

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen. II). Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

09/15/88

LAB NO. C881915/3

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Donnelly DATE COL'D: RECEIVED: 08/16/88

SAMPLE: Soil sample SE outside storm drain

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<5
Freon 113	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	36
Chloroform	ug/Kg	5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
Trichloroethylene	ug/Kg	10
12 Dichloropropane	ug/Kg	<10
Bromodichloromethane	ug/Kg	<5
Tetrachloroethene	ug/Kg	5
Chlorodibromomethane	ug/Kg	<5
Bromoform	ug/Kg	<10
Benzene	ug/Kg	130
Toluene	ug/Kg	460
Ethyl Benzene	ug/Kg	1300
m Xylene	ug/Kg	4800
o+p Xylene	ug/Kg	2200
m Dichlorobenzene	ug/Kg	<10
o Dichlorobenzene	ug/Kg	<10
p Dichlorobenzene	ug/Kg	10
Arsenic as As	mg/Kg	6.9

ANALYTICAL PARAMETERS		
Barium as Ba	mg/Kg	4.4
Cadmium as Cd	mg/Kg	9.8
Chromium as Cr	mg/Kg	34
Lead as Pb	mg/Kg	200
Mercury as Hg	mg/Kg	0.16
Selenium as Se	mg/Kg	<0.05
Silver as Ag	mg/Kg	1.2

cc: Bob Lee, Donnelly Eng.

REMARKS: Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

LAB NO. C881915/3

09/15/88

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Client DATE COL'D: RECEIVED: 08/16/88

SAMPLE: EP Extract of soil SE out storm drain

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS		
Arsenic as As	mg/L*	<0.005
Barium as Ba	mg/L*	0.16
Cadmium as Cd	mg/L*	<0.001
Chromium as Cr	mg/L*	<0.02
Lead as Pb	mg/L*	0.008
Mercury as Hg	mg/L*	<0.001
Selenium as Se	mg/L*	<0.005
Silver as Ag	mg/L*	<0.01

cc: Rob Lee, Donnelly Eng.

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen. II).
Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

09/15/88

LAB NO. C881915/7

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Donnelly DATE COL'D: RECEIVED: 08/16/88

SAMPLE: Soil sample, NW outside storm drain

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/Kg	<5
Freon 113	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	25
Chloroform	ug/Kg	5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
Trichloroethylene	ug/Kg	45
12 Dichloropropane	ug/Kg	<10
Bromodichloromethane	ug/Kg	<5
Tetrachloroethene	ug/Kg	10
Chlorodibromomethane	ug/Kg	<5
Bromoform	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	490
Ethyl Benzene	ug/Kg	30
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	130
m Dichlorobenzene	ug/Kg	<10
o Dichlorobenzene	ug/Kg	<10
p Dichlorobenzene	ug/Kg	<10
Arsenic as As	mg/L	4.4

ANALYTICAL PARAMETERS		
Barium as Ba	mg/L	6.4
Cadmium as Cd	mg/L	4.0
Chromium as Cr	mg/l	11
Lead as Pb	mg/L	220
Mercury as Hg	mg/Kg	0.16
Selenium as Se	mg/Kg	0.03
Silver as Ag	mg/Kg	0.52

cc: Bob Lee, Donnelly Eng.

REMARKS: Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C881915/7 09/15/88

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Client DATE COL'D: RECEIVED: 09/16/88

SAMPLE: EP Extract of soil NW out storm drain

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	0.27	
Cadmium as Cd	mg/L*	0.001	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	0.012	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc: Bob Lee, Donnelly Eng.

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen. II).
Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C881915/1

09/15/88

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Donnelly DATE COL'D: RECEIVED: 08/16/88

SAMPLE: Soil Sample, SW outside storm drain

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/Kg	<5
Freon 113	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
Trichloroethylene	ug/Kg	15
12 Dichloropropane	ug/Kg	<10
Bromodichloromethane	ug/Kg	<5
Tetrachloroethene	ug/Kg	10
Chlorodibromomethane	ug/Kg	<5
Bromoform	ug/Kg	<10
Benzene	ug/Kg	5
Toluene	ug/Kg	80
Ethyl Benzene	ug/Kg	15
m Xylene	ug/Kg	70
o+p Xylene	ug/Kg	40
m Dichlorobenzene	ug/Kg	<10
o Dichlorobenzene	ug/Kg	<10
p Dichlorobenzene	ug/Kg	<10
Arsenic as As	mg/Kg	2.4

ANALYTICAL PARAMETERS

Barium as Ba	mg/Kg	20
Cadmium as Cd	mg/Kg	2.4
Chromium as Cr	mg/Kg	6.8
Lead as Pb	mg/Kg	42
Mercury as Hg	mg/Kg	0.11
Selenium as Se	mg/Kg	0.07
Silver as Ag	mg/Kg	0.27

cc: Bob Lee, Donnelly Eng.

REMARKS: Page 1 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C881915/1 09/15/88

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Donnelly DATE COL'D: RECEIVED: 08/16/88

SAMPLE: EP Extract of soil sample SW out drain

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	0.11	
Cadmium as Cd	mg/L*	<0.001	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	<0.005	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc: Bob Lee, Donnelly Eng.

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen. II). Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

LAB NO. C882018/1

09/26/88

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D:08/25/88 RECEIVED:08/26/88

SAMPLE: Water sample, outside NE storm drain

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/L	<1
Freon 113	ug/L	<1
Methylene Chloride	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
12 Dichloroethane	ug/L	<2
Trichloroethylene	ug/L	<1
12 Dichloropropane	ug/L	<2
Bromodichloromethane	ug/L	<1
Tetrachloroethene	ug/L	<1
Chlorodibromomethane	ug/L	<1
Bromoform	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
m Dichlorobenzene	ug/L	<2
o Dichlorobenzene	ug/L	<2
p Dichlorobenzene	ug/L	<2
Arsenic as As	mg/L	<0.002

ANALYTICAL PARAMETERS		
Barium as Ba	mg/L	<0.05
Cadmium as Cd	mg/L	0.037
Chromium as Cr	mg/L	<0.02
Lead as Pb	mg/L	0.015
Mercury as Hg	mg/L	<0.001
Selenium as Se	mg/L	<0.002
Silver as Ag	mg/L	0.01

cc: Donnelly Eng., Bob Lee

REMARKS: Page 1 of 2.

DIRECTOR Thomas R. Beall

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C882018/1 09/26/88

Star Carting
94 Denton Avenue
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above (eptox metals)
COLLECTED BY: Client DATE COL'D:08/25/88 RECEIVED:08/26/88

SAMPLE: EP Extract water outside NE storm drain

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	<0.05	
Cadmium as Cd	mg/L*	0.003	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	<0.005	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc:Donnelly Eng.,Bob Lee

REMARKS: *Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen.II).
Page 2 of 2.

DIRECTOR

ECOTEST LABORATORIES, INC.

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

NTAL TESTING

09/15/88

LAB NO. C881915/4

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D: RECEIVED: 08/15/88

SAMPLE: Water sample, SE outside storm drain

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/L	<1
Freon 113	ug/L	<1
Methylene Chloride	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
12 Dichloroethane	ug/L	<2
Trichloroethylene	ug/L	<1
12 Dichloropropane	ug/L	<2
Bromodichloromethane	ug/L	<1
Tetrachloroethene	ug/L	<1
Chlorodibromomethane	ug/L	<1
Bromoform	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
m Dichlorobenzene	ug/L	<2
o Dichlorobenzene	ug/L	<2
p Dichlorobenzene	ug/L	<2

ANALYTICAL PARAMETERS

cc: Bob Lee, Donnelly Eng.

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC.
ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C881915/8

09/15/88

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D: RECEIVED: 08/16/88

SAMPLE: Water sample, NW outside storm drain

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Vinyl Chloride	ug/L	<1	
Freon 113	ug/L	<1	
Methylene Chloride	ug/L	<2	
11 Dichloroethane	ug/L	<2	
12 Dichloroethene	ug/L	<2	
Chloroform	ug/L	<1	
111 Trichloroethane	ug/L	<1	
Carbon Tetrachloride	ug/L	<1	
12 Dichloroethane	ug/L	<2	
Trichloroethylene	ug/L	<1	
12 Dichloropropane	ug/L	<2	
Bromodichloromethane	ug/L	<1	
Tetrachloroethene	ug/L	<1	
Chlorodibromomethane	ug/L	<1	
Bromoform	ug/L	<2	
Benzene	ug/L	<1	
Toluene	ug/L	<2	
Ethyl Benzene	ug/L	<1	
m Xylene	ug/L	<2	
o+p Xylene	ug/L	<4	
m Dichlorobenzene	ug/L	<2	
o Dichlorobenzene	ug/L	<2	
p Dichlorobenzene	ug/L	<2	

cc: Bob Lee, Donnelly Eng.

REMARKS:

DIRECTOR Thomas R. Watts

ECOTEST LABORATORIES, INC.

TAL TESTING

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

09/15/89

LAB NO. C881915/2

Star Carting
94 Denton Ave.
Garden City Park, NY

ATTN:

SOURCE OF SAMPLE: Same as above
COLLECTED BY: Client DATE COL'D: RECEIVED: 08/16/89

SAMPLE: Water sample, SW outside storm drain

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS		
Vinyl Chloride	ug/L	<1
Freon 113	ug/L	<1
Methylene Chloride	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
12 Dichloroethane	ug/L	<2
Trichloroethylene	ug/L	<1
12 Dichloropropane	ug/L	<2
Bromodichloromethane	ug/L	<1
Tetrachloroethene	ug/L	<1
Chlorodibromomethane	ug/L	<1
Bromoform	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
m Dichlorobenzene	ug/L	<2
o Dichlorobenzene	ug/L	<2
p Dichlorobenzene	ug/L	<2

cc: Bob Lee, Donnelly Eng.

REMARKS:

DIRECTOR

REFERENCE 28

New York State Department Of Environmental Conservation
Division of Environmental Enforcement
202 Mamaroneck Avenue - Room 304
White Plains, N.Y. 10601-5381
Telephone: (914) 761-3575

Thomas C. Jorling
Commissioner

February 26, 1992

RECEIVED
MAR 3 - 1992
HAZARDOUS WASTE REMEDIATION
NYSDEC REGION 1

Lark J. Shlimbaum
Shlimbaum, Shlimbaum & Jablonski
265 Main Street
P.O. Box 8
Islip, New York 11751

Via Federal Express

Re: **ORDER ON CONSENT**
Star Carting Co.
Site # 1-30-039

Dear Ms. Shlimbaum:

Enclosed are two counterpart originals of the Order on Consent for the Star Carting RI/FS. In order to facilitate copying, one counterpart has not been stapled.

You and/or Star Carting's engineer may obtain any relevant Department policy or guidance documents by sending requests to the Regional office, Stony Brook or the Central office, Albany (see Consent Order, page 11, ¶XI).

Please attach a map of the site to both originals of the Order; have your client sign both originals of the Order; affix the corporate seal and return both originals to me. I will notify you when the Order is signed by Deputy Commissioner Edward O. Sullivan and send you a fully executed Order on Consent.

Thank you very much for your courtesy and consideration in this matter. Please feel free to call me if you have any questions.

Very truly yours,

Louis P. Oliva
Senior Attorney

Encl.
cc: Jamie Ascher w/ Encl.

STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Development and Implementation of a Remedial Investigation/ Feasibility Study for an Inactive Hazardous Waste Disposal Site, Under Article 27, Title 13, of the Environmental Conservation Law of the State of New York by

STAR CARTING COMPANY

Respondent.

ORDER ON CONSENT
Index # W1-0215-8803

Site # 1-30-039

WHEREAS,

1. The New York State Department of Environmental Conservation (the "Department") is responsible for enforcement of Article 27, Title 13 of the Environmental Conservation Law of the State of New York ("ECL"), entitled "Inactive Hazardous Waste Disposal Sites".

2. Star Carting Company ("Respondent"), is a corporation organized and existing under the laws of the State of New York. Respondent occupies real property located at 94 Denton Avenue in Garden City Park, Town of North Hempstead, County of Nassau (the "Site"). A map of the Site is attached to this Order as "Appendix A".

3. The Site has been designated by the Department an inactive hazardous waste disposal site, as that term is defined at ECL Section 27-1301(2) and has been deemed by the Department to present a significant threat to the public health or environment. The Site has been listed in the Registry of

NOW, having considered this matter and being duly advised, IT IS ORDERED THAT:

I. All activities and submittals required by this Order shall address both on-Site contamination and off-Site impacts and shall be in accordance with Requisite Remedial Technology. As used in this Order, Requisite Remedial Technology means the proper application of scientific and engineering principles and practices, subject to the Department's approval, which will identify and mitigate or eliminate any present or potential threat to the public health or environment posed by the presence of hazardous waste at the Site and any release or threatened release of hazardous waste at or from the Site.

II. Respondent shall retain professional consultants, contractors and laboratories, quality assurance/quality control personnel, and data validation personnel acceptable to the Department to perform the technical, engineering and analytical obligations required by this Order. The experience, capabilities and qualifications of the firms or individuals selected by Respondent shall be submitted within 30 calendar days after the effective date of this order, consultant selection or contract execution, whichever is later, to the Department for approval prior to initiation of any activities for which the Respondent and their consultants will be responsible.

III. Within 30 calendar days after the effective date of this Order, Respondent shall submit to the Department their

scoping effort completed in accordance with EPA's "Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA", dated October 1988, and any subsequent revisions thereto, and appropriate technical and administrative guidelines.

Respondent shall, within the same 30 calendar days, submit all data within its possession or control regarding environmental conditions on-Site and off-Site areas impacted by the Site, and other information described below, to the extent that such data have not previously been provided to the Department. The data and other information shall include:

a. A brief history and description of the Site, including the types, quantities, physical state, location and dates of disposal of hazardous waste including methods of disposal and spillage of such wastes;

b. A concise summary of information held by the Respondents and their attorneys with respect to all persons responsible for such disposal of hazardous wastes. Person responsible or responsible party means any or all of the following:

(1) the current owner and operator of the Site;

(2) the owner and operator of the Site at the time or subsequent to the time any hazardous waste disposal occurred;

(3) any person who generated any hazardous waste that was disposed of at the Site;

(4) any person who transported any hazardous waste to

the Site;

(5) any person who disposed of any hazardous waste at the Site;

(6) any person who by contract, agreement or otherwise arranged for the transportation of any hazardous waste to the Site or the disposal of any hazardous waste at the Site;

(7) any other person determined to be responsible according to applicable principles of statutory or common law liability.

Such information shall include, but not be limited to, names, addresses, dates of disposal and any proof linking each such person responsible with hazardous wastes identified pursuant to Paragraph III (a) herein;

c. A comprehensive list and copies of all existing relevant reports with titles, authors and subject matter, as well as a description of the results of all previous investigations of the Site and areas in the vicinity of the Site, including copies of all available property surveys and engineering studies. Respondent will provide a complete inventory, listing title dates and subject matter, of all topographical and aerial photographs of the Site. Additionally Respondent shall submit representative copies of the topographical and aerial photographs listed. The Respondent will provide copies of any document covered by this paragraph if the Department so requests and such document is available to the Respondent.

IV. Within 30 calendar days after the effective date of this Order, Respondent shall submit to the Department a Work Plan for a Remedial Investigation/Feasibility Study.

The Work Plan shall address all elements of a Remedial Investigation/Feasibility Study as set forth in the Comprehensive Environmental Response, Compensation and Liability Act of 1980 ("CERCLA"), 42 U.S.C. Sections 9601 et seq., as amended, the National Contingency Plan ("NCP") then in effect, the USEPA draft guidance document entitled "Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA" dated October 1988, and any subsequent revisions thereto, and appropriate technical and administrative guidelines. In addition, the Work Plan shall include:

a. A Work Plan which shall consist of a chronological description of the anticipated RI/FS activities together with an anticipated schedule for the performance of these activities.

b. A Sampling and Analysis Plan which shall include:

(i) A Quality Assurance Project Plan that describes the quality assurance and quality control ("QA/QC") protocols necessary to achieve the initial data quality objectives. This plan shall designate a data validation expert and must describe such individual's qualifications and experience.

(ii) A Field Sampling Plan that defines the

sampling and data gathering methods in a manner consistent with the "Compendium of Superfund Field Operations Method" (EPA/540/P-87/001, OSWER Directive 9355.0-14, December 1987) as supplemented by the Department.

c. A Health and Safety Plan for the protection of persons at and in the vicinity of the Site during the performance of the Remedial Investigation which shall be prepared in accordance with 29 C.F.R. Section 1910 by a certified health and safety professional. Respondent shall add supplemental items to this plan necessary to ensure the health and safety of all persons at or in the vicinity of the Site, during the performance of any work pursuant to this Order.

d. A Citizen Participation Plan which is prepared in a manner consistent with the Department's publication "New York State Inactive Hazardous Waste Site Citizen Participation Plan", dated August 30, 1988, and any subsequent revisions.

V. The Department shall notify Respondent in writing of its approval or disapproval of the Work Plan.

If the Department disapproves the Work Plan, the Department shall notify Respondent in writing of the Department's objections. Within 45 days after receipt of notice of disapproval, Respondent shall revise the Work Plan in accordance with the Department's specific comments and submit a Revised Work Plan.

The Department shall notify Respondent in writing of its approval or disapproval of the Revised Work Plan.

If the Department disapproves the Revised Work Plan, Respondent shall be deemed by the Department to be in violation of this Order.

The Work Plan or the Revised Work Plan, whichever the Department approves (the "Approved Work Plan"), shall be attached as "Appendix B" and incorporated into this Order.

VI. In accordance with the time schedule contained in the Approved Work Plan, Respondent shall perform the Remedial Investigation and submit a Remedial Investigation Report (the "Report") status reports and other deliverables as defined in the Work Plan and in the Report. During the Field Activities, Respondent shall have on-Site, full-time, a representative who is qualified to inspect the work. The Report shall include all data generated and all other information obtained during the Remedial Investigation, provide all of the assessments and evaluations set forth in CERCLA, the NCP then in effect, and in the guidance documents referred to above and identify any additional data that must be collected. The Feasibility Study and Report shall be prepared and certified by the individual or firm with the primary responsibility for the day to day performance of the Remedial Investigation. That individual or firm shall certify that all activities that comprised the Remedial Investigation were performed in full accordance with the Approved Work Plan.

VII. After receipt of the Report, the Department shall determine if the Remedial Investigation was conducted and

the Report prepared in accordance with the Approved Work Plan and this Order, and shall notify Respondent in writing of its approval or disapproval of the Report.

If the Department disapproves the Report, the Department shall notify Respondent in writing of the Department's objections. Respondent shall revise the Report and/or reperform or supplement the Remedial Investigation in accordance with the Department's specific comments and shall submit a revised Report. The period of time within which the Report must be revised or the Remedial Investigation reperformed or supplemented shall be specified by the Department in its notice of disapproval.

After receipt of the Revised Report, the Department shall notify the Respondent in writing of its approval or disapproval of the Revised Report.

If the Department disapproves the Revised Report, the Respondent shall be deemed by the Department to be in violation of this Order.

The Report or the Revised Report, whichever the Department approves (the "Approved Report"), shall be attached as "Appendix C" and incorporated into this Order.

VIII. The Department reserves the right to require a modification and/or an amplification and expansion of the Remedial Investigation and Report by Respondent if the Department determines, as a result of reviewing data generated by the Remedial Investigation or as a result of reviewing any

other data or facts, that further work is necessary.

IX. Within 15 calendar days after receipt of the Department's approval of the Report, Respondent shall submit a Feasibility Study evaluating on-Site and off-Site remedial actions to eliminate, to the maximum extent practicable, all health and environmental hazards and potential hazards attributable to the Site. The Feasibility Study shall be prepared by and have the signature and seal of a professional engineer who shall certify that the Feasibility Study was prepared in accordance with this Order.

The Feasibility Study shall be performed in a manner that is consistent with CERCLA, the NCP then in effect, the USEPA draft guidance document entitled "Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA," dated October 1988 and any subsequent revisions thereto and appropriate technical and administrative guidelines.

X. After receipt of the Feasibility Study, the Department shall determine if the Feasibility Study was prepared in accordance with this Order, and shall provide written notification of its approval or disapproval.

If the Department disapproves the Feasibility Study, the Department shall notify Respondent in writing of the Department's objections. Within 45 calendar days after receipt of notice of disapproval, Respondent shall revise the Feasibility Study in accordance with the Department's specific comments and submit a Revised Feasibility Study.

After receipt of the Revised Feasibility Study, the Department shall notify Respondent in writing of its approval or disapproval of the Revised Feasibility Study.

If the Department disapproves the Revised Feasibility Study, the Respondent shall be deemed by the Department to be in violation of this Order.

The Feasibility Study or the Revised Feasibility Study, whichever the Department approves (the "Approved Feasibility Study"), shall be attached as "Appendix D" and incorporated into this Order.

XI. Within 60 calendar days after the Department's approval of the Feasibility Study, the Department and Respondent shall solicit public comment on the Remedial Investigation/Feasibility Study and the Recommended Remedial Program in accordance with CERCLA, the NCP, any other applicable law, and any relevant Department policy and guidance documents in effect at the time the public comment period is initiated. After the close of the public comment period, the Department shall select a final remedial program for the Site in a Record of Decision ("ROD"). The ROD shall be attached as "Appendix E" and incorporated into this Order.

XII. The Department shall have the right to obtain split samples, duplicate samples, or both, of all substances and materials sampled by Respondent and the Department shall also have the right to take its own samples.

XIII. Respondent shall provide notice to the Department at

least 10 working days in advance of any field activities to be conducted pursuant to this Order.

XIV. Respondent shall obtain whatever permits, easements, rights-of-way, rights-of-entry, approvals or authorizations that are necessary to perform Respondent's obligations under this Order.

XV. Respondent shall permit any duly designated employee, consultant, contractor or agent of the Department or any State agency to enter upon the Site or areas in the vicinity of the Site which may be under the control of Respondent for purposes of inspection, sampling and testing and to assure Respondent's compliance with this Order. During implementation of the Remedial Program, Respondent shall provide the Department with suitable office space at the Site, including access to a telephone, and shall permit the Department full access to all relevant records and job meetings.

XVI. Within 30 days after receipt of an itemized invoice from the Department, Respondent shall pay to the Department a sum of money which shall represent reimbursement for the Department's expenses including, but not limited to, direct labor, overhead, travel, analytical costs, and contractor costs incurred by the State of New York for work performed at the Site to date, as well as for negotiating this Order, reviewing and revising submittals made pursuant to this Order, overseeing activities conducted pursuant to this Order, and collecting and analyzing samples. Such payment shall be made by certified

check payable to the Department of Environmental Conservation. Payment shall be sent to the Bureau of Program Management, Division of Hazardous Waste Remediation, N.Y.S.D.E.C., 50 Wolf Road, Albany, NY 12233-7010. Itemization of the costs shall include an accounting of personal services indicating the employee name, title, biweekly salary, and time spent (in hours) on the project during the billing period. The Department's approved fringe benefit and indirect cost rates shall be applied. Non-personal service costs shall be summarized by category of expense (e.g., supplies, materials, travel, contractual).

XVII. Respondent shall not suffer any penalty under this Order, or be subject to any proceeding or action, if it cannot comply with any requirements hereof because of an act of God, war, riot, or circumstances beyond its control.

Respondent shall immediately notify the Department in writing when it obtains knowledge of any such condition and request an appropriate extension or modification of this Order.

XVIII. The adjudicated failure of the Respondent to comply with any term of this Order shall be a violation of this Order and the ECL.

XIX. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating or in any way affecting:

a. the Department's right to bring any action or proceeding against anyone other than Respondent, its directors, officers, employees, servants, agents, successors and assigns;

b. the Department's right to enforce this Order against Respondent, its directors, officers, employees, servants, agents, successors and assigns in the event that Respondent shall fail to satisfy any of the terms hereof;

c. the Department's right to bring any action or proceeding against Respondent, its directors, officers, employees, servants, agents, successors and assigns with respect to claims for natural resources damages as a result of the release or threatened release of hazardous wastes or constituents at or from the Site to the Site or to areas in the vicinity of the Site, and;

d. the Department's right to bring any action or proceeding against Respondent, its directors, officers, employees, servants, agents, successors and assigns with respect to hazardous wastes that are present at the Site or that have migrated from the Site and present a significant threat to human health or the environment.

XX. This Order shall not be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers.

XXI. Respondent shall indemnify and hold the Department, the State of New York, and their representatives and employees harmless for all claims, suits, actions, damages and costs of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of this Order by Respondent, its directors, officers, employees, servants,

agents, successors or assigns.

XXII. The effective date of this Order shall be the date it is signed by the Commissioner or his designee.

XXIII. If Respondent desires that any provision of this Order be changed, it shall make timely written application to the Department for the Commissioner's consideration, setting forth reasonable grounds for the relief sought. A copy of such written application shall be delivered or mailed to:

(1) Louis P. Oliva, Esq.
Division of Environmental Enforcement
NYS Dept. of Environmental Conservation
202 Mamaroneck Avenue Room 304
White Plains, N.Y. 10601-5381

(2) and to the Project Manager as designated by the Department.

XXIV. All written communications required by this Order shall be transmitted by United States Postal Service, by private courier service, hand delivered, or transmitted by overnight delivery service.

XXV. All Work Plans, Reports and other technical documents required to be submitted under this Order shall be sent to the following:

1. Four copies (one unbound) to:

Anthony Candela, P.E.
Division of Hazardous Waste Remediation
NYS Department of Environmental Conservation
Region I Headquarters
Building # 40 - SUNY at Stony Brook
Stony Brook, N.Y. 11794

2. Two copies to:

Director, Bureau of Environmental Exposure
Investigation
New York State Department of Health
2 University Place
Albany, New York 12203

3. One copy to:

Michael J. O'Toole, Jr., P.E.
Director, Div. of Hazardous Waste Remediation
NYS Department of Environmental Conservation
50 Wolf Road - Room 212
Albany, N.Y. 12233-7010

4. One copy to:

Louis P. Oliva, Esq.
Division of Environmental Enforcement
NYS Department of Environmental Conservation
202 Mamaroneck Avenue Room 304
White Plains, N.Y. 10601-5381

XXVI. All other communications and correspondence from Respondent to the Department shall be addressed to the Department's attorney:

Louis P. Oliva, Esq.
Division of Environmental Enforcement
NYS Dept. of Environmental Conservation
202 Mamaroneck Avenue Room 304
White Plains, N.Y. 10601-5381

with copies to the Department's project manager:

Jamie Ascher
Division of Hazardous Waste Remediation
NYS Department of Environmental Conservation
Region I Headquarters
Building # 40 - SUNY at Stony Brook
Stony Brook, N.Y. 11794

However, day to day considerations of a purely technical nature may be addressed by the Respondent's consultant directly to the project manager.

XXVII. Communication from the Department to the Respondent shall be made as follows:

Lark J. Shlimbaum, Esq.
Shlimbaum, Shlimbaum & Jablonski
265 Main Street - P.O. Box 8
Islip, N.Y. 11751

XXVIII. Respondent, its officers, directors, agents, servants, employees, successors and assigns shall be bound by this Order.

XXIX. The terms hereof shall constitute the complete and entire Order between Respondent and the Department concerning the Site. No terms, conditions, understandings or agreements purporting to modify or vary the terms hereof shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestions or comments by the Department regarding reports, proposals, plans, specifications, schedules or any other submittals shall be construed as relieving Respondent of its obligations to obtain such formal approvals as may be required by this Order.

DATED: , New York
, 1992

THOMAS C. JORLING
Commissioner
New York State Department of
Environmental Conservation

By: EDWARD O. SULLIVAN
Deputy Commissioner
New York State Department of
Environmental Conservation

CONSENT BY RESPONDENT

STAR CARTING COMPANY

Respondent hereby consents to the issuing and entering of this Order, waives its right to a hearing herein as provided by law, and agrees to be bound by this Order.

By: _____
Joseph Michael Bonsera

Title: Vice President

Date: _____

STATE OF NEW YORK)
) s.s.:
COUNTY OF)

On this _____ day of _____, 19 , before me personally came _____, to me known, who being duly sworn, did depose and say that he resides in _____,. that he is the _____ of _____, the corporation described herein and which executed the foregoing instrument; that he knew the seal of said corporation; that the seal affixed to this instrument was such corporate seal; that it was so affixed by the order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

_____
Notary Public

STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Development and Implementation of a Remedial Investigation/ Feasibility Study for an Inactive Hazardous Waste Disposal Site, Under Article 27, Title 13, of the Environmental Conservation Law of the State of New York by	ORDER ON CONSENT Index # W1-0215-8803 Site # 1-30-039
STAR CARTING COMPANY Respondent.	

RECORD OF TELEPHONE CONVERSATION

DATE: November 14, 1995

TO: Vinny Viviano
Equipment Operator II
Nassau County Department of Public Works
Sewer Permits Section

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
SEWER PERMIT FOR STAR CARTING

Mr. Viviano indicated that a sewer pemit (#S137697) was issued to Star Carting on June 30, 1992 and signed by the inspector on July 9, 1992. Mr. Viviano also indicated that the property used a sanitary cesspool prior to connection. Sewage from the Star Carting Site would eventually discharge to the Bay Park Sewer Treatment Plant.

cc: File

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 30

REFERENCE 29

Statement
New York State Department of Environmental Conservation
Star Carting Company
Inactive Hazardous Waste Disposal Site, #1-30-039
June 5, 1995

The role of the New York State Department of Environmental Conservation's (NYSDEC) Division of Hazardous Waste Remediation (DHWR) is to oversee the investigation and remediation of Inactive Hazardous Waste Disposal Sites.

Beginning in 1976, the Star Carting facility was used as a transfer station for refuse. In 1985, the Nassau County Department of Health sampled storm drains and leaching pools at the facility and found elevated levels of organic solvents, heavy metals, and oil and grease. This was the basis for including the site in the New York State Registry of Inactive Hazardous Waste Disposal Sites as a Class 2 site.

A Class 2 site is defined as a site where hazardous waste disposal is confirmed and which poses a significant threat to the public health or the environment. "Significant threat" does not imply an emergency but rather a condition that needs to be investigated and remediated. In the case of Star Carting, significant threat is posed by the potential for groundwater contamination. Currently, there are 101 Class 2 sites in Nassau and Suffolk counties. Two other sites exist in New Hyde Park - Fumex Sanitation located at 131 Herricks Road and Manfred F.J. Schulte located at 405 Jericho Turnpike. Both are Class 2 sites.

In order to determine the full nature and extent of the contamination at the Star Carting site, a Remedial Investigation will be conducted by an environmental consultant hired by the property owner and overseen by DHWR. DHWR has coordinated the review and approval of the Remedial Investigation Workplan. Both the New York State and the Nassau County Department of Health have had the opportunity to review and comment on the draft workplan. During Field implementation of the workplan, DHWR will oversee soil boring and monitoring well installations. DHWR will also obtain soil and groundwater samples to be sent to an independent New York State Department of Health certified laboratory for analysis. Soil and groundwater samples will be taken both upgradient and downgradient of the site in order to determine what effects

the site has had on the environment. Soil and groundwater samples will be analyzed for the contaminants previously discovered at the site as well as many additional contaminants, including volatile organic compounds, semi-volatile organic compounds, metals and PCBs. We do not expect to find all of these contaminants at the site. Analytical results will be compared to the appropriate regulatory standards for groundwater and soil quality.

Start-up of field work has been delayed by the property owner. However, field work will begin in the next two weeks. Upon completion of the Remedial Investigation, a public meeting will be held to discuss the findings and obtain further information from the public.

For further information, please contact NYSDEC Citizen Participation Specialist Dr. Joshua Epstein at (516) 444-0249 or NYSDEC Project Manager Jamie Ascher at (516) 444-0246.

A:JA:STARSTAT.JA

REFERENCE 31

RECORD OF TELEPHONE CONVERSATION

DATE: January 23, 1996

TO: Jamie Ascher
Project Manager
Division of Hazardous Waste Remediation
NYDEC Region I
(516) 444-0246

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
MONITORING WELL INFORMATION

Requested information on depth, and screened interval for seven monitoring wells installed at the Star Carting site. Mr. Ascher quoted information from his field log book.

Well No	Depth (feet below grade)	Screened Interval (feet below grade)
MW-1	50	39-49
MW-2	50	39-49
MW-3	50	39-49
MW-4	50	39-49
MW-5	49	38.5-48.5
MW-6	49	38.5-48.5
MW-7	50	39-49

The interval below the screened interval is sand pack. Top of water table was approximately 1 to 1.5 feet below the upper limit of the screened interval.

cc: File

Joseph Fischl

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 32

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84201

MW 2

Lab Name: H2M LABS,INC Contract: C003180

Reference 32
Page 1 of 33

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9509540

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01231.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84201

MW 2

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525471

Reference 32

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B01180.D

Page 2 of 33

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/26/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

gpw 10/1/95

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

IC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHE

A84201

MW.1

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525471

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B01180.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/26/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: good 10/1/95

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

(1) - Cannot be separated from Diphenylamine

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

A84201

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525471

Level (low/med): LOW Date Received: 09/13/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3160		E	P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	4.4	B		P
7440-39-3	Barium	53.2	B	E	P
7440-41-7	Beryllium	0.93	B		P
7440-43-9	Cadmium	0.43	B	N	P
7440-70-2	Calcium	21900		E	P
7440-47-3	Chromium	4.7	B	EN	P
7440-48-4	Cobalt	10.5	B	EN	P
7440-50-8	Copper	11.0	B	EN	P
7439-89-6	Iron	18900			P
7439-92-1	Lead	22.6		EN	P
7439-95-4	Magnesium	4030	B	E	P
7439-96-5	Manganese	342		E	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	13.9	B	EN	P
7440-09-7	Potassium	2080	B	E	P
7782-49-2	Selenium	2.0	B		P
7440-22-4	Silver	0.60	U	N	P
7440-23-5	Sodium	16000		E	P
7440-28-0	Thallium	2.5	B		P
7440-62-2	Vanadium	10.6	B	EN	P
7440-66-6	Zinc	50.8		EN	P
	Cyanide				

Color Before: ORANGE Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84202

MW2

Lab Name: H2M LABS.INC Contract: C003180

Reference 32

Page 5 of 33

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525472

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01232.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEE

A84202

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525472

Sample wt/vol: 990.0 (g/mL ML Lab File ID: B01181.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/26/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 10/1/95

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

IC [illegible]
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEE

A84202

MW 2

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525472

Sample wt/vol: 990.0 (g/mL ML Lab File ID: B01181.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/26/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: [illegible] 10/1/95

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

(1) - Cannot be separated from Diphenylamine

INORGANIC ANALYSIS DATA SHEET

A84202

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525472

Level (low/med): LOW Date Received: 09/13/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8150		E	P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	9.1	B		P
7440-39-3	Barium	92.7	B	E	P
7440-41-7	Beryllium	0.87	B		P
7440-43-9	Cadmium	0.30	U	N	P
7440-70-2	Calcium	25600		E	P
7440-47-3	Chromium	14.9		EN	P
7440-48-4	Cobalt	40.1	B	EN	P
7440-50-8	Copper	18.2	B	EN	P
7439-89-6	Iron	44800			P
7439-92-1	Lead	18.3		EN	P
7439-95-4	Magnesium	5040		E	P
7439-96-5	Manganese	1390		E	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	32.4	B	EN	P
7440-09-7	Potassium	3430	B	E	P
7782-49-2	Selenium	1.4	U		P
7440-22-4	Silver	0.60	U	N	P
7440-23-5	Sodium	15700		E	P
7440-28-0	Thallium	2.5	B		P
7440-62-2	Vanadium	32.4	B	EN	P
7440-66-6	Zinc	70.1		EN	P
	Cyanide				

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84203

MW 3

Reference 32

Page 9 of 33

Lab Name: H2M LABS,INC. Contract: C003180

Lab Code: 10473 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525473

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01233.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

A84203

MW 3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525473

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B01182.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/26/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: gms 10/1/95

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound	ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEE

A84203 MW-3

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525473

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B01182.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/26/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 10/1/95

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

(1) - Cannot be separated from Diphenylamine

MW 3

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

A84203

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525473

Level (low/med): LOW Date Received: 09/13/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4070		E	P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	3.6	B		P
7440-39-3	Barium	61.8	B	E	P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.30	U	N	P
7440-70-2	Calcium	24800		E	P
7440-47-3	Chromium	3.6	B	EN	P
7440-48-4	Cobalt	13.3	B	EN	P
7440-50-8	Copper	6.4	B	EN	P
7439-89-6	Iron	20500			P
7439-92-1	Lead	6.1		EN	P
7439-95-4	Magnesium	4040	B	E	P
7439-96-5	Manganese	456		E	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	13.4	B	EN	P
7440-09-7	Potassium	3500	B	E	P
7782-49-2	Selenium	1.4	U		P
7440-22-4	Silver	0.60	U	N	P
7440-23-5	Sodium	15100		E	P
7440-28-0	Thallium	1.9	U		P
7440-62-2	Vanadium	10.2	B	EN	P
7440-66-6	Zinc	31.8		EN	P
	Cyanide				

Color Before: ORANGE Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. MW4

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Reference 32
Page 13 of 33

Matrix: (soil/water) WATER Lab Sample ID: 9525474

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01234.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

A84204

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525474

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B01183.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 10/1/95

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEE

A84204 | MW-4

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525474

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B01183.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 SMJ 10/1/95

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHI
TENTATIVELY IDENTIFIED COMPOUNDS

A84204

MW4

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH195 SAS No.: 0 SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: X9525474

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B01183.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N) N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ~~2.0~~ 10/1/95

Concentration Units: (ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS Number	Compound Name	RT	Est. Conc	Q
1. 25057-89-0	Bentazone	23.93	14	J
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INORGANIC ANALYSIS DATA SHEET

A84204

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525474

Level (low/med): LOW Date Received: 09/13/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	73700		E	P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	48.1			P
7440-39-3	Barium	353		E	P
7440-41-7	Beryllium	5.0			P
7440-43-9	Cadmium	0.60	U	N	P
7440-70-2	Calcium	26300		E	P
7440-47-3	Chromium	109		EN	P
7440-48-4	Cobalt	264		EN	P
7440-50-8	Copper	142		EN	P
7439-89-6	Iron	319000			P
7439-92-1	Lead	93.7		EN	P
7439-95-4	Magnesium	12800		E	P
7439-96-5	Manganese	8620		E	P
7439-97-6	Mercury	0.25			CV
7440-02-0	Nickel	207		EN	P
7440-09-7	Potassium	7380		E	P
7782-49-2	Selenium	4.3	B		P
7440-22-4	Silver	0.60	U	N	P
7440-23-5	Sodium	14200		E	P
7440-28-0	Thallium	5.6	B		P
7440-62-2	Vanadium	179		EN	P
7440-66-6	Zinc	400		EN	P
	Cyanide				

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

MW5

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

A85205

Lab Name: H2M LABS, INC. Contract: [illegible]

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525475

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01235.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

A84205

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525475

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B01184.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

A84205

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525475

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B01184.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound	ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

A84205

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH195 SAS No.: 0 SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: X9525475

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B01184.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N) N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Concentration Units: (ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS Number	Compound Name	RT	Est. Conc	Q
1. 25057-89-0	Bentazone	23.91	3	J
2.				
3.				
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MLS

INORGANIC ANALYSIS DATA SHEET

A84205

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525475

Level (low/med): LOW Date Received: 09/13/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4460		E	P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	4.8	B		P
7440-39-3	Barium	65.7	B	E	P
7440-41-7	Beryllium	0.30	B		P
7440-43-9	Cadmium	0.30	U	N	P
7440-70-2	Calcium	23600		E	P
7440-47-3	Chromium	7.0	B	EN	P
7440-48-4	Cobalt	19.6	B	EN	P
7440-50-8	Copper	13.7	B	EN	P
7439-89-6	Iron	24000			P
7439-92-1	Lead	8.8		EN	P
7439-95-4	Magnesium	4340	B	E	P
7439-96-5	Manganese	513		E	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	15.1	B	EN	P
7440-09-7	Potassium	2320	B	E	P
7782-49-2	Selenium	1.4	U		P
7440-22-4	Silver	0.60	U	N	P
7440-23-5	Sodium	20000		E	P
7440-28-0	Thallium	2.0	B		P
7440-62-2	Vanadium	12.5	B	EN	P
7440-66-6	Zinc	57.0		EN	P
	Cyanide				

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

MW 6

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

A84206

Lab Name: HZM LABS,INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525476

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01236.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEE

A84206

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525476

Sample wt/vol: 1000.0 g mL ML Lab File ID: B01185.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

A84206

MW 6

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X9525476

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B01185.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 Decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 uL Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo(a)anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

AW 6

INORGANIC ANALYSIS DATA SHEET

A84206

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525476

Level (low/med): LOW Date Received: 09/13/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4410		E	P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	4.5	B		P
7440-39-3	Barium	77.5	B	E	P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.30	U	N	P
7440-70-2	Calcium	31700		E	P
7440-47-3	Chromium	7.3	B	EN	P
7440-48-4	Cobalt	14.0	B	EN	P
7440-50-8	Copper	12.0	B	EN	P
7439-89-6	Iron	23300			P
7439-92-1	Lead	6.7		EN	P
7439-95-4	Magnesium	6100		E	P
7439-96-5	Manganese	439		E	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	13.6	B	EN	P
7440-09-7	Potassium	3270	B	E	P
7782-49-2	Selenium	1.4	U		P
7440-22-4	Silver	0.60	U	N	P
7440-23-5	Sodium	24900		E	P
7440-28-0	Thallium	1.9	B		P
7440-62-2	Vanadium	12.4	B	EN	P
7440-66-6	Zinc	50.8		EN	P
	Cyanide				

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW7

Lab Name: H2M LABS INC Contract: C003180 A84207

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525477

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01222.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/16/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

A84207

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: I0478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X5477

Sample wt/vol: 990.0 (g/mL ML Lab File ID: B01186.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 10/1/95

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

A84207

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: 0 SDG No.: NDEC0912

Matrix: (soil/water) WATER Lab Sample ID: X5477

Sample wt/vol: 990.0 (g/mL ML Lab File ID: B01186.D

Level: (low/med) Date Received: 9/13/95

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/27/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

(1) - Cannot be separated from Diphenylamine

H2M LABS, INC. ENVIROFORMS/INORGANIC CLP

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INORGANIC ANALYSIS DATA SHEET

A84207

Lab Name: H2M LABS, INC. Contract:

Lab Code: H2MLAB Case No.: SAS No.: SDG No.: XX0912

Matrix (soil/water): WATER Lab Sample ID: 9525477

Level (low/med): LOW Date Received: 09/13/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	95200		E	P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	63.7			P
7440-39-3	Barium	582		E	P
7440-41-7	Beryllium	7.4			P
7440-43-9	Cadmium	1.5	U	N	P
7440-70-2	Calcium	31700		E	P
7440-47-3	Chromium	154		EN	P
7440-48-4	Cobalt	462		EN	P
7440-50-8	Copper	190		EN	P
7439-89-6	Iron	637000			P
7439-92-1	Lead	157		EN	P
7439-95-4	Magnesium	17300		E	P
7439-96-5	Manganese	13500		E	P
7439-97-6	Mercury	0.41			CV
7440-02-0	Nickel	351		EN	P
7440-09-7	Potassium	8990		E	P
7782-49-2	Selenium	3.1	B		P
7440-22-4	Silver	0.60	U	N	P
7440-23-5	Sodium	18000		E	P
7440-28-0	Thallium	10.4			P
7440-62-2	Vanadium	252		EN	P
7440-66-6	Zinc	528		EN	P
	Cyanide				

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
DATE REPORTED: OCTOBER 10, 1995

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330\ U)}{D} \times df \quad \text{where } D = \frac{100 - \%\ moisture}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100-24}{100} = 0.76$

$$\frac{(330\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

QUALIFIERS FOR METALS ANALYSIS

ANALYSIS QUALIFIERS

E - The reported value is estimated because of the presence of interference. An explanatory note is included in the case narrative.

M - Duplicate injection precision not met.

N - Matrix spiked sample recovery is not within the control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

+ - Correlation coefficient for the MSA is less than 0.995.

W - Post digestion spike for Furnace AA analysis is out of control limits (85-115 %), while sample absorbance is less than 50 % of spike absorbance.

* - Duplicate analysis not within control limits.

CONCENTRATION QUALIFIERS

B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).

U - Entered if the analyte was analyzed for but not detected, less than the IDL.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

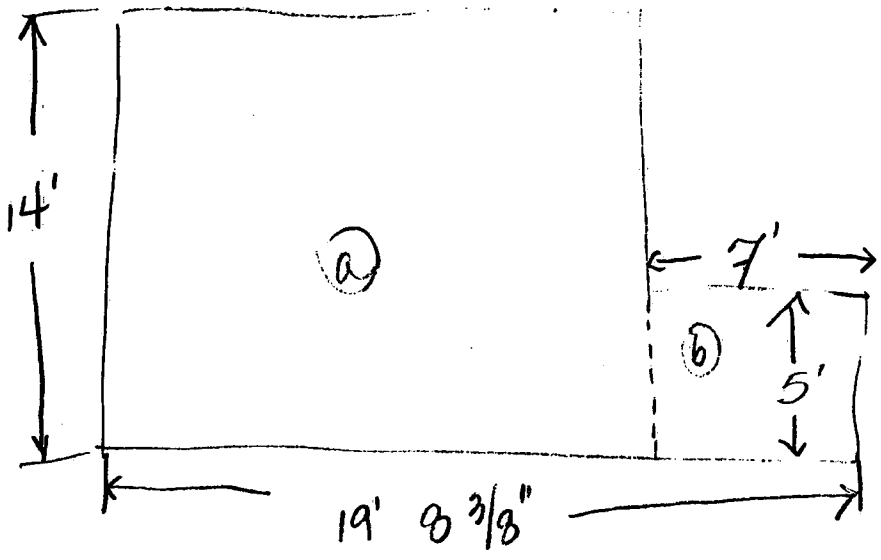
X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

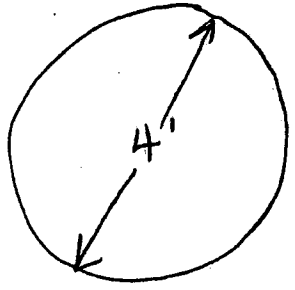
The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

REFERENCE 33

Dentifier Sump

N & S Dry wells





width of a = 19' 8 3/8" - 7
= 12' 8 3/8"
= 12.7'

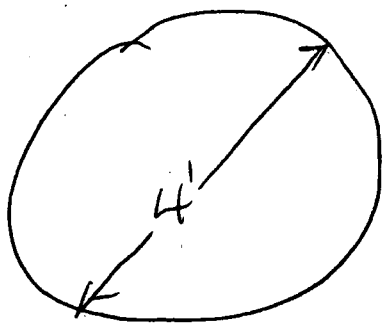
area a = 14' x 12' = 177.8 sq ft
area b = 7' x 5' = 35 sq ft
area a + b = 212.8 sq ft

$A = \pi r^2$
$= 3.14 \times (2)^2$
$= 3.14 \times 4$
$= 12.56$ sq ft

Total area = dentifier sump + 2 dry wells + sanitary seepage
= 212.8 sq ft + 2 (12.56) sq ft + 1 sq ft
= 238.92 sq ft.

Reference 33
Page 1 of 2

Outdoor drywell



$A = \pi r^2$

$A = 3.14 \cdot (2')^2$

$A = 3.4 \cdot 4$ sq ft

$A = 12.56'$ sq ft

12.56 sq ft × 4 = 50.24 sq ft

REFERENCE 34

Soil Survey of Nassau County, New York

By John P. Wulforst, Soil Conservation Service

Fieldwork by Albert N. Averill, Jr., Kevin A. Connelly, Laurence D. Day, Marjorie Faber, Bradford A. Higgins, Stephen J. Page, Paul A. Ray, Luther H. Robinson, Theodore D. Trevail, Kenneth W. Van Doren, Keith A. Wheeler, and John P. Wulforst, Soil Conservation Service

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

NASSAU COUNTY is on Long Island, the southeasternmost part of New York State (fig. 1). The county has a land area of 192,000 acres. Mineola, the county seat, is just west of the geographic center of the county. The 1980 census lists the population of the county at about 1.3 million (*10*).

This soil survey of Nassau County provides more information than surveys of the county that were published in 1904 and 1928, and it has maps that show the soils in greater detail.

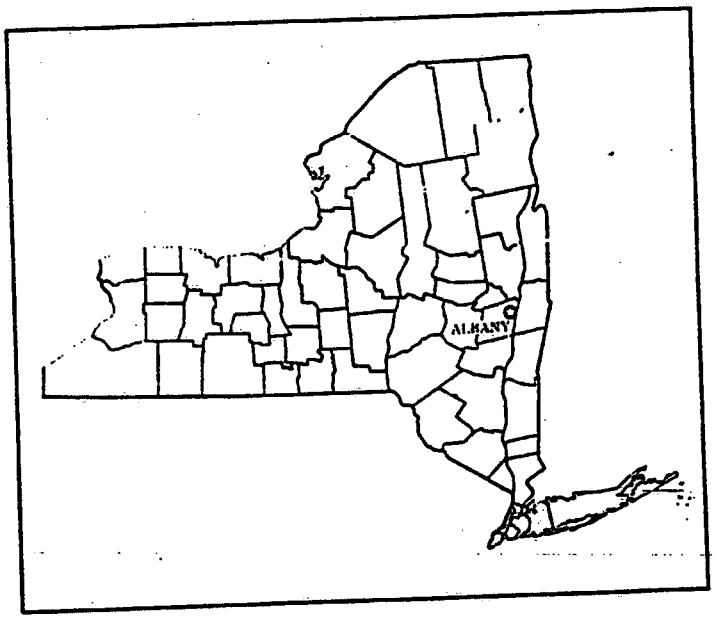


Figure 1.—Location of Nassau County in New York.

General Nature of the County

This section provides general information about some of the natural and cultural factors that affect land use in Nassau County.

Climate

Prepared by the National Climatic Center, Asheville, North Carolina.

Precipitation in Nassau County is well distributed throughout the year. The precipitation in winter frequently occurs as snow, but the ground usually does not stay covered for more than a few days at a time.

Table 1 gives data on temperature and precipitation for the survey area as recorded at Mineola in the period 1951 to 1980. Table 2 shows probable dates of the first freeze in fall and the last freeze in spring. Table 3 provides data on length of the growing season.

In winter the average temperature is 33 degrees F, and the average daily minimum temperature is 27 degrees. The lowest temperature on record, which occurred at Mineola on January 27, 1976, is -1 degree. In summer the average temperature is 72 degrees, and the average daily maximum temperature is 81 degrees. The highest recorded temperature, which occurred at Mineola on July 3, 1966, is 103 degrees.

Growing degree days are shown in table 1. They are equivalent to "heat units." During the month, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (40 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

The total annual precipitation is 42 inches. Of this, 21 inches, or 50 percent, usually falls in April through September. The growing season for most crops falls within this period. In 2 years out of 10, the rainfall in April through September is less than 16 inches. The heaviest 1-day rainfall during the period of record was 8.2 inches at Mineola on August 12, 1955 . Thunderstorms occur on about 22 days each year, and most occur in summer.

The average seasonal snowfall is 27 inches. The greatest snow depth at any one time during the period of record was 29 inches. On the average, 15 days of the year have at least 1 inch of snow on the ground. The number of such days varies greatly from year to year.

The average relative humidity in midafternoon is about 55 percent. Humidity is higher at night, and the average at dawn is about 70 percent. The sun shines 65 percent of the time possible in summer and 50 percent in winter. The prevailing wind is from the west-northwest. Average windspeed is highest, 14 miles per hour, in spring.

Physiography and Geology

Bernard S. Ellis, geologist, Soil Conservation Service, assisted with this section.

Nassau County is part of the Coastal Plain physiographic province. The county is characterized by undulating or rolling landscapes in the northern part and a flat plain with a gently southward tilt in the southern part. A lobe of rolling topography protrudes farther to the south along the eastern edge of the county. Extensive tidal areas and marshes are just south of the plain, and a barrier beach and dunes form the southern outline of the county.

Elevation in the county ranges from sea level to about 340 feet above sea level near the eastern edge of the county, just south of NY Route 25. The landforms at the higher elevations were deposited as a terminal moraine. These areas have irregular topography that is crossed by deep glacial drainage channels near the north shore. These channels empty into deep bays on the north shore. The steepest relief is along drainage channels or on the side slopes adjacent to the bays. An outwash plain, which is to the south of the terminal moraine, has a maximum elevation of about 180 feet just northeast of Hicksville and slopes gradually to the south some 8 to 10 miles, finally reaching tidal areas at sea level.

Nassau County is underlain by bedrock, but most of it is at a depth of several hundred feet. The closest surficial bedrock is to the west in the boroughs of Bronx and Queens in New York City and areas to the northwest in Westchester County, near Long Island Sound. From these areas of surface exposure, the rock surface dips to the southeast to form a solid basement below Nassau County. Most of the bedrock consists of Cretaceous sedimentary layers (*3*). Some of the older rocks in the area are the 200-million-year-old Triassic red beds and lava flows off New Jersey and Connecticut and the Cambrian metamorphic rocks in the New York City area that are 450 million years old.

During the Late Cretaceous Period the sediments from the eroding Appalachian Highlands were carried by streams and rivers to low-lying coastal areas. The sand, silt, and clay of the Raritan and Magothy formations, which form the foundation of Long Island, were deposited as deltas in areas of shallow water. The Raritan formation is below sea level, and the Magothy formation is at the surface of several sites along the north shore.

During the Tertiary Period the area of Long Island was uplifted above sea level and the Cretaceous sediments were eroded and dissected by streams and rivers. The valley now occupied by Long Island Sound was cut by a major river, and smaller tributary streams formed valleys which are now the north shore bays.

During the Pleistocene Epoch of the Quaternary Period, several major glacial advances into the northern United States occurred. This epoch is divided into four major glacial stages. From oldest to youngest, they are: Nebraskan, Kansan, Illinoian, and Wisconsin. During the Illinoian advance, the ice sheet reached a position just north of the Long Island area. Outwash sand and gravel, of the Jameco gravel formation, was deposited by meltwater streams. Following the Illinoian stage, sea level rose close to its present level and a clay (Gardiners clay) containing marine fossils was deposited in the shallow coastal waters surrounding Long Island.

During the Wisconsin glacial advance, the ice reached a position represented on most of Long Island by the Ronkonkoma terminal moraine. In the latter part of this stage, the ice sheet receded from a point east of Lake Success and established a new position along the north shore marked by the Harbor Hill terminal moraine. West of Lake Success this lobe of ice overrode the Ronkonkoma moraine and pushed as far south as Staten Island. This caused the terminal moraine deposits in Nassau County to form a wide band of irregular topography occupying the northern half of the county, while in adjacent Suffolk County the terminal moraine

deposits were far enough apart to be two distinct landforms separated by a flat plain. During the Wisconsin advance, sea level dropped about 350 feet below its current elevation to expose a broad, flat coastal plain.

As the climate again warmed about 11,000 years ago, the Wisconsin period ended and the Holocene, or present, period began. The ice sheet receded to its present polar limits, and sea level rose to its present level. Currents and wave action modified the outwash plain to create the present-day shoreline.

Drainage

A few perennial streams drain the county. The longer streams carry runoff water to the estuaries of the south shore. From west to east, they are Valley Stream, Mill River, East Meadow Brook, Bellmore Creek, and Massapequa Creek. A few shorter creeks, such as Hook, Motts, Powell, and Seaford Creeks, also drain toward the south shore.

Most of the drainage to the north shore is intermittent. Glen Cove Creek and Mill Neck Creek are the longest creeks that drain toward the north shore; other shorter, mostly intermittent creeks drain into the bays of the north shore. A sizable portion of the runoff that originates between NY Routes 25 and 25A enters the ground water by collecting in natural closed depressions or landlocked ponds.

Much of the runoff on paved surfaces in recently developed areas is recharged into the ground water system by routing it into dug pits or recharge basins.

Water Supply

The primary water supply in the county is underground aquifers. This source is in a saturated wedge-shaped mass of unconsolidated deposits that overlie nearly impermeable consolidated bedrock. There are two major types of aquifers: a confined aquifer with ground water under artesian pressure and an unconfined aquifer in a water table (4).

The contour of the surface of the water table of Nassau County is roughly the same as that of the landscape topography. The water table is closest to the surface at the terminal moraine and is deeper toward the coasts. The artesian pressure surfaces generally are a few feet lower than the water table near the middle of the island, and they are a few feet higher than the water table near the coasts.

The aquifer system is in recognizable separate units. The upper-glacial, or water table, aquifer is at the least depth and is made up primarily of sand and gravel deposits from the most recent glacial period. Deeper in the unconsolidated deposits are layers of good water-bearing strata. These are the Jameco, Magothy, and Lloyd aquifers. The Lloyd is the deepest and rests on bedrock.

Initially most wells were drilled into the shallower strata. As the population increased and supplying water became a municipal effort, wells were drilled into deeper strata and the shallower aquifers became more polluted as the amount of cesspool discharge reaching those aquifers increased.

Since much of the county borders saltwater, the encroachment of salt into the freshwater layers is a hazard. This intrusion results because the fresh ground water, salty ground water, and salty sea water are interconnected. Generally, if the freshwater reservoir is pumped out at rates that exceed natural recharge from surface precipitation, saltwater will occupy the void.

Effects of Man and Urbanization

The landscape of Nassau County has changed drastically over the past 50 years. Extensive housing developments, shopping centers, industrial complexes, and business corridors now dominate areas where vast acreages of potatoes and other crops were once grown for markets in New York City. The large areas of well drained, nearly level soils have provided suitable sites for development. Rapid urbanization has created an ever-increasing demand for public services, waste-disposal facilities, and recreation areas.

The main relatively undisturbed open areas are in the southern part of the county. Most are in golf courses, municipal parks, greenbelts bordering parkways, scattered wildlife preserves along drainageways, tidal marshes, and barrier beaches. The soils immediately along the slope that are sites for houses, marinas, and park facilities, such as at Wantaugh Cow Meadow, Oceanside, Baldwin Harbor, and Bay Park, largely consist of dredgings from the bays and the ocean. These areas are mostly sandy soils that are variable in drainage due to the shallow depth of the water table. Many of these areas, including residences and small parks, experience inundation during abnormal high spring tides and winter storms. Soils in small parks, picnic areas, and athletic fields have often become compacted through intensive use, making planting and maintenance of grasses and shrubs difficult. Many areas within the larger parks, including Eisenhower Park, Bethpage State Park, and Restoration Village, the upper reaches of Valley Stream Park, and Hempstead Lake State Park, have retained much of their native quality, partly because of soil management to control erosion.

Some areas in the northern part of the county are still open and undisturbed. These areas are in a few vegetable and horse farms, areas of abandoned farms, large estates, partially wooded areas, preserve properties, and low-density or cluster subdivisions. The undulating to steep rolling glacial tills common to the north-central part of the county are variable in drainage, depending upon whether they are at the top of ridges or in low-lying pockets, and many of these soils have a

compacted substratum causing a perched seasonal high water table. This variable drainage, coupled with variable slopes, makes development in this area more difficult and demonstrates the need for construction activities that use proper erosion control practices. Sandy soils on the ridges are commonly droughty and have a thin layer of topsoil and often require loamy fill for successful landscape plantings. Soils with no plant cover and large gullies are common in playgrounds, vacant lots, and some parks, while undisturbed woods and old fields on estate properties in the same areas rarely show signs of erosion, except along some equestrian trails.

Piecemeal grading and shaping operations and abandoned sand and gravel pits have left many unstable and hazard-prone banks in the county. Manmade areas, such as ground water recharge basins, which are deep pits excavated into the substratum of the soil, are scattered throughout the county and are further evidence of man's activity. Some other manmade areas are sanitary landfills and dredge spoil sites.

How This Survey Was Made

This survey was made to provide information about the soils in the survey area. The information includes a description of the soils and their location and a discussion of the suitability, limitations, and management of the soils for specified uses. Soil scientists observed the steepness, length, and shape of slopes; the general pattern of drainage; and the kinds of crops and native plants growing on the soils. They dug many holes to study the soil profile, which is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed. The unconsolidated material has few or no roots or other living organisms and has been changed very little by other biologic activity.

The soils in the survey area occur in an orderly pattern that is related to the geology, the landforms, relief, climate, and the natural vegetation of the area. Each kind of soil is associated with a particular kind of landscape or with a segment of the landscape. By observing the soils in the survey area and relating their position to specific segments of the landscape, a soil scientist develops a concept, or model, of how the soils were formed. Thus, during mapping, this model enables the soil scientist to predict with considerable accuracy the kind of soil at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, acidity, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes. Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. The system of taxonomic classification used in the United States is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpreted the data from these analyses and tests as well as the field-observed characteristics and the soil properties in terms of expected behavior of the soils under different uses. Interpretations for all of the soils were field tested through observation of the soils in different uses under different levels of management. Some interpretations are modified to fit local conditions, and new interpretations sometimes are developed to meet local needs. Data were assembled from other sources, such as research information, production records, and field experience of specialists.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can state with a fairly high degree of probability that a given soil will have a high water table within certain depths in most years, but they cannot assure that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Map Unit Composition

A map unit delineation on a soil map represents an area dominated by one major kind of soil or an area dominated by several kinds of soil. A map unit is

REFERENCE 35

USGS 7.5 Minute Quads Used:
Freeport, NY
Hicksville, NY
Lynnbrook, NY
Sea Cliff, NY
Latitude, Longitude (Site Center):
Lat 40° 44' 25" N
Long 74° 40' 19" W
N
W
E
S
Roslyn Harbor
Greenvale
Flower Hill
Plandome
Munsey Park
Roslyn
Roslyn Estates
Kensington
Great Neck Estates
Great Neck Plaza
Thomaston
Russell Gardens
North Hills
Lake Success
Glen Oaks
Floral Park
Garden City
Hempstead
Mineola
Carle Place
Westbury
Old Westb
Roosevelt Raceway
Valley Stream
Rockville Centre
Elmont
Franklin Square
Malverne
Lakeview
South Hempstead
Hempstead Gardens
Williston Park
East Williston
Albertson
Springfield Gardens
Queens
Bellerose
Alden Manor
Rosedale
Laurelton
Cambria Heights
North Valley Stream
Montefiore Cemetery
Greenfield
Rockville Centre
SCALE 1:24 000
1 MILE
7000 FEET
1 KILOMETER
U.S. ENVIRONMENTAL PR
Four-Mile Radius Map
Star Carting Company
94 Denton Avenue
Garden City Park, New York
Reference 36
Page 1 of 4

Reference 35
Page 1 of 4

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

HYDROLOGIC FRAMEWORK OF LONG ISLAND, NEW YORK

By D.A. Smolensky, H.T. Buxton, and P.K. Shernoff

Prepared in cooperation with the
NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION,
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS,
SUFFOLK COUNTY WATER AUTHORITY and DEPARTMENT OF HEALTH SERVICES

HYDROLOGIC INVESTIGATIONS ATLAS
Published by the Geological Survey, 1989

SMOLENSKY AND OTHERS—HYDROGEOLOGIC FRAMEWORK OF LONG ISLAND, NEW YORK 1:250,000 ATLAS HA-709

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

INTRODUCTION

Long Island, N.Y., is underlain by a mass of unconsolidated geologic deposits of clay, silt, sand, and gravel that overlie southward-sloping consolidated bedrock. These deposits are thinnest in northern Queens County (northwestern Long Island), where bedrock crops out, and increase to a maximum thickness of 2,000 ft in southeastern Long Island. This sequence of unconsolidated deposits consists of several distinct geologic units ranging in age from late Cretaceous through Pleistocene, with some recent deposits near shores and streams. These units are differentiated by age, depositional environment, and lithology in table 1.

Investigations of ground-water availability and flow patterns may require information on the internal geometry of the hydrologic system that geologic correlations and interpretation alone cannot provide; hydrologic interpretations in which deposits are differentiated on the basis of water-transmitting properties are generally needed also. This set of maps and vertical sections depicts the hydrogeologic framework of the unconsolidated deposits that form Long Island's ground-water system. These deposits can be classified into eight major hydrogeologic units (table 1). The hydrogeologic interpretations presented herein are not everywhere consistent with strict geologic interpretation owing to facies changes and local variations in the water-transmitting properties within geologic units.

These maps depict the upper-surface altitude of seven of the eight hydrogeologic units, which, in ascending order, are: consolidated bedrock, Lloyd aquifer, Raritan confining unit, Magothy aquifer, Monmouth greensand, Jameco aquifer, and Gardiners Clay. The upper glacial aquifer—the uppermost unit—is at land surface over most of Long Island and is, therefore, not included. The nine north-south hydrogeologic sections shown below depict the entire sequence of unconsolidated deposits and, together with the maps, provide a detailed three- dimensional interpretation of Long Island's hydrogeologic framework.

The structure-contour map that shows the upper-surface altitude of the Cretaceous deposits is included to illustrate the erosional unconformity between the Cretaceous and overlying Pleistocene deposits. Pleistocene erosion played a major role in determining the shape and extent of the Lloyd aquifer, the Raritan confining unit, and the Magothy aquifer, and thus partly determined their hydrogeologic relation with subsequent (post-Cretaceous) deposits.

PREVIOUS HYDROGEOLOGIC INVESTIGATIONS

The first attempt to map the complete sequence of geologic units on an islandwide scale was made by Suter and others (1949) despite a paucity of data. The most recent report to interpret the hydrogeology of Long Island on an islandwide scale was by McClymonds and Franke (1972) which gives the estimated thickness of the Lloyd, Magothy, Jameco, and upper glacial aquifers. Recent investigations have provided more detailed information in several local areas.

The hydrogeologic framework of Kings and Queens Counties has been evaluted by Buxton and Shernoff (U.S. Geological Survey, written comm., 1985), and the northern part of Nassau County has been studied by Kilburn (1980) and Kilburn and Krulikas (1986). The Roosevelt and Mitchell Field area in Nassau County has been studied by Eckhardt (in press), and the upper surface altitude of the Matawan Group and Magothy Formation and shallower geologic units of southern Nassau and Suffolk Counties have been mapped by Doriski and Wilde-Katz (1982).

Jensen and Soren (1974) mapped the complete sequence of aquifers and confining units in Suffolk county. Local hydrogeologic studies in Suffolk County include the Montauk Point area (Prince, 1986); the south fork (Nemickas and Koszalka, 1982); the northern part of the Town of Brookhaven (Koszalka, 1980); and the surface of the Matawan Group and Magothy Formation in Suffolk County (Krulikas, Koszalka, and Doriski, 1983). All of these reports define either geologic or hydrogeologic units, which may create some discrepancies upon comparision owing to the differing criteria for interpretation.

The hydrogeologic units on Long Island can be correlated with those of northeastern New Jersey, which have been investigated by Gill and Farlekas (1976), Minard (1969), Zapecza (1984)

EROSION/

The unconsolidated deposits
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Present-day depositional envi
type and rate of sediments d
sediments and their structure an
nondeposition, and (or) erosion
This study used a theoretica
the individual hydrogeologic u
thickness of sediments on the
time.
The following paragraphs bri
their correlation with the presen
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configuration is defined as a pe
deposits are absent above bed
be dated.
The overlying Cretaceous a
separated by an interval of n
Long Island, which form the R
by streams and coalescing de
upward that may be a result of
has been divided into two m
overlying unnamed clay memb
grain size. The intervening co
2).
The first interval of nondepo
fine-grained clay member of t
and Magothy Formation, undif
configuration of the Raritan cla
After the interval of nondep
dominated by streams and c
indicates an environment of hi
sands and clays that form the b
The Monmouth Group (M
Magothy Formation, undifferen
of nondeposition or erosion d
rolling with no severe erosion (
(sheet 3) was deposited by a
environment.
Although Tertiary deposits a
Whether Tertiary deposition oc
Several episodes of Pleistoce
River valley severely eroded
Island between all Cretaceou
erosion typical of the high-ener
The well-dissected surface o
severe on the north shore an
entire sequence of Cretaceou
channels in the Cretaceous sur
erosion in meltwater channels
The lack of ice-contact eros
island marks the furthest exten
The oldest Pleistocene depo
Long Island. It is a channel fil

[redacted] 1.—Hyd[redacted] units o[redacted]nd and [redacted]r bearin[redacted]es
[ft/d, feet per day; ft, feet]

System	Series	Geologic unit	Hydrogeologic unit	Approximate maximum thickness (ft)	Character of deposits	Water bearing properties
Quaternary	Holocene	Recent deposits: Salt marsh deposits, stream alluvium, shoreline deposits and fill	Recent deposits	50	Sand, gravel, clay, silt, organic mud, peat, loam, and shells. Colors are gray, brown, green, black, and yellow.	Beach deposits are highly permeable; marsh deposits poorly permeable. Locally hydraulically connected to underlying aquifers.
	Pleistocene	Upper Pleistocene deposits	Upper glacial aquifer	700	Till composed of clay, sand, gravel, and boulders, forms Harbor Hill and Ronkonkoma terminal moraines. Outwash deposits consist of quartzose sand, fine to very coarse, and gravel, pebble to boulder sized. Also contains lacustrine, marine, and reworked deposits. Local units are Port Washington aquifer and confining unit, "20-foot clay," and clay at Smithtown.	Till is poorly permeable. Outwash deposits are moderately to highly permeable. Glaciolacustrine and marine clay deposits are mostly poorly permeable but locally have thin, moderately permeable layers of sand and gravel. Average horizontal hydraulic conductivity is approximately 270 ft/d; conductivity of morainal material is approximately 50 percent of outwash deposits; anisotropy is approximately 10:1.
		unconformity				
		Gardiners Clay	Gardiners Clay	150	Clay, silt, and few layers of sand. Colors are grayish green and brown. Contains marine shells and glauconite.	Poorly permeable; constitutes a confining layer for underlying aquifer. Some sand lenses may be permeable. Average vertical hydraulic conductivity is approximately 0.001 ft/d.
		unconformity				
		Jameco Gravel	Jameco aquifer	200	Sand, fine to very coarse, and gravel to large-pebble size; few layers of clay and silt. Gravel is composed of crystalline and sedimentary rocks. Color is mostly brown.	Moderately to highly permeable. Confined by overlying Gardiners clay. Average horizontal hydraulic conductivity is 200 to 300 ft/d; anisotropoy is approximately 10:1.
Cretaceous	Upper Cretaceous	Monmouth Group	Monmouth greensand	200	Interbedded marine deposits of clay, silt, and sand, dark-greenish gray, greenish-black, greenish, dark-gray, and black, containing much glauconite.	Poorly permeable; primarily a confining unit for underlying Magothy aquifer. Average vertical hydraulic conductivity is approximately 0.001 ft/d.
		unconformity				
		Matawan Group—Magothy Formation, undifferentiated	Magothy aquifer	1,100	Sand, fine to medium clayey in part; interbedded with lenses and layers of coarse sand and sandy and solid clay. Gravel is common in basal zone. Sand and gravel are quartzose. Lignite, pyrite, and iron oxide concretions are common. Colors are gray, white, red, brown, and yellow.	Most layers are poorly to moderately permeable; some are highly permeable locally. Water is unconfined in uppermost parts, elsewhere is confined. Constitutes principal aquifer for public supply. Average horizontal hydraulic conductivity is 50 ft/d; anistrophy is approximately 100:1.
		unconformity				
		Raritan Formation: Unnamed clay member	Raritan confining unit	200	Clay, solid and silty; few lenses and layers of sand. Lignite and pyrite are common. Colors are gray, red, and white, commonly variegated.	Poorly to very poorly permeable; constitutes confining layer for underlying Lloyd aquifer. Average vertical hydraulic conductivity is approximately 0.001 ft/d.
		Raritan Formation: Lloyd Sand Member	Lloyd aquifer	500	Sand, fine to coarse, and gravel, commonly with clayey matrix; some lenses and layers of solid and silty clay; locally contains thin lignite layers. Sand and most of gravel are quartzose. Colors are yellow, gray, and white; clay is red locally.	Poorly to moderately permeable. Water is confined by overlying Raritan clay. Average horizontal hydraulic conductivity is 40 ft/d; anisotropy is approximately 10:1.
Paleozoic and Precambrian		Bedrock	Bedrock		Crystalline metamorphic and igneous rocks; muscovite-biotite schist, gneiss, and granite. A soft, clayey zone of weathered bedrock locally is more than 70 ft thick.	Poorly permeable to virtually impermeable; constitutes lower boundary of ground-water reservoir. Some hard fresh water is contained in joints and fractures but is impractical to develop at most places.

Reference 35
Page 3 of 4

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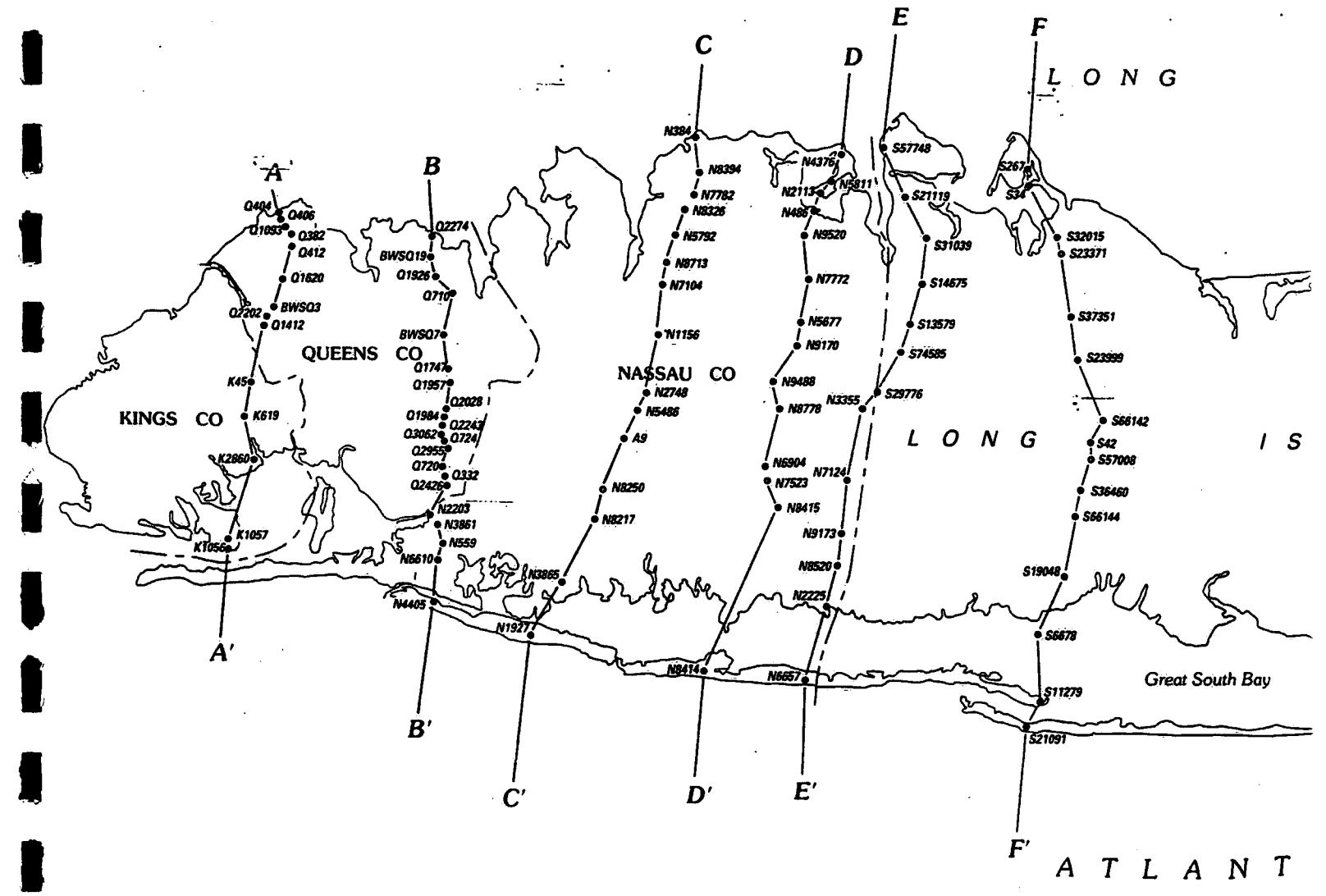
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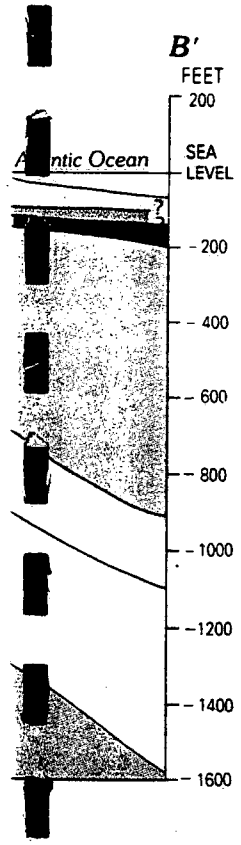
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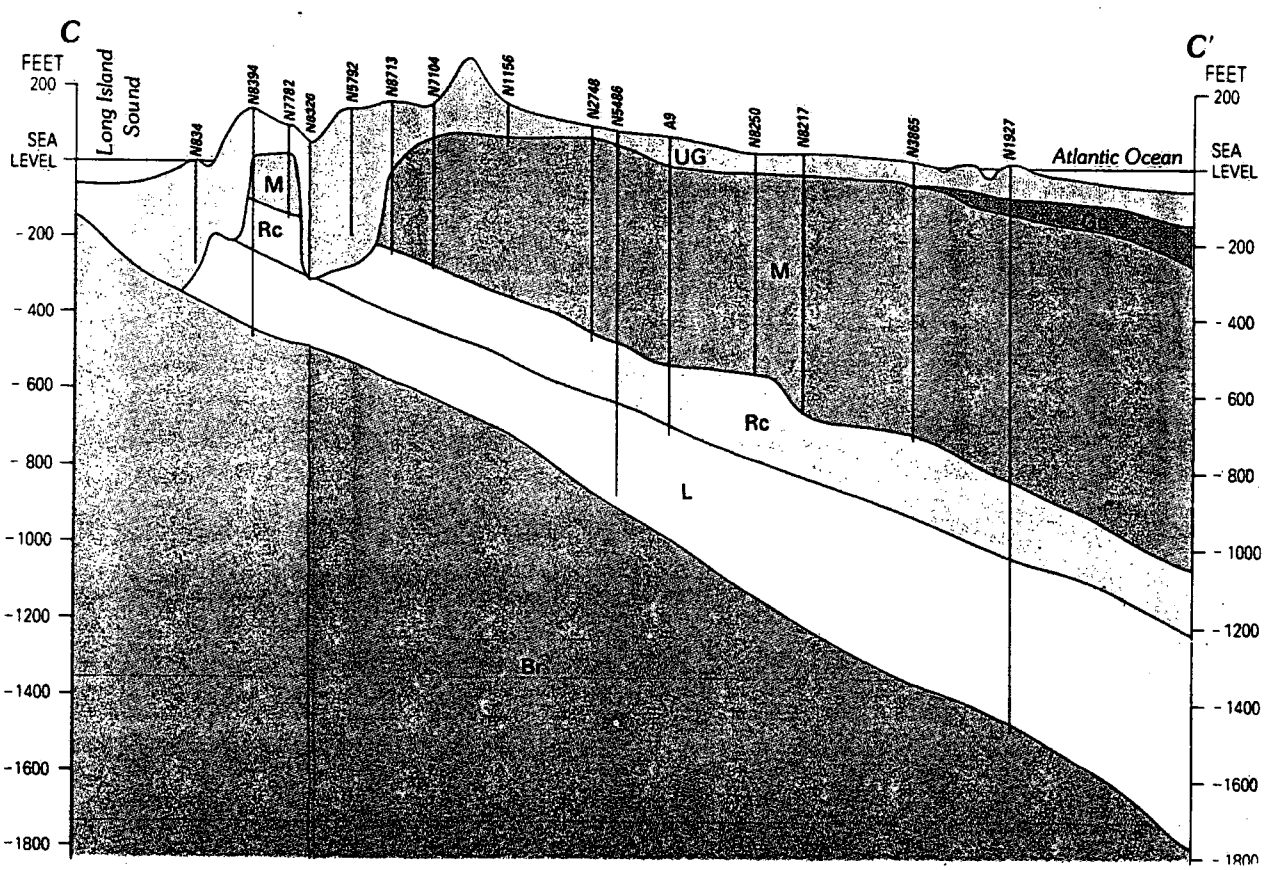
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NCDH/NCDPW COOPERATIVE AGREEMENT PROJECT

GARDEN CITY PARK GROUNDWATER QUALITY STUDY

PRELIMINARY REPORT

April 28, 1993

Introduction

As part of the June 1986 study performed by Dvirka and Bartilucci for the Nassau County Department of Health (NCDH), "Investigation of Contaminated Aquifer Segments, Nassau County" (referred to in this document as the "Hot Spots" study), groundwater contamination near an industrial area (see Figure 1) located in Garden City Park north of the LIRR Merillon Avenue station was addressed. This was one of ten areas where high concentrations of volatile organic chemicals (VOCs) were found in public supply wells and/or monitoring wells. Based on additional study, it is now believed that seventeen public supply wells may have been or are currently impacted by a widespread VOC plume emanating from the Garden City Park industrial area.

Background Study

In addition to existing monitoring wells and public supply wells located in and adjacent to the Garden City Park industrial area, nine water table wells were installed as part of the "Hot Spots" study (see Figure 1). Water level measurements from these nine wells indicated that groundwater flowed to the southwest. Sampling for VOC's determined that groundwater contamination existed, to some degree, at all nine wells. Two wells, 800 feet apart, were significantly impacted with highest concentrations reaching 51,210 ug/l total VOC's (TVOC's). Tetrachloroethylene (PCE) was the primary compound found in the groundwater. Trichloroethylene (TCE) and 1,1,1-Trichloroethane (TCA) were found in smaller concentrations. These compounds, which are used by industries and dry cleaners as degreasers, are heavier than water and therefore sink once

they reach the water table. The "Hot-Spots" study concluded that the nine study wells and four public supply wells were impacted by a plume emanating from the Garden City Park industrial area and migrated down-gradient with a strong downward vertical component. These factors precipitated the need for further study in the Garden City Park area.

NCDH/NCDPW Cooperative Study

As a follow-up to the "Hot Spots" study, a NCDH/NCDPW cooperative study of groundwater contamination in Garden City Park was undertaken in June 1991. Twelve additional monitoring wells were installed to better define the areal extent of the plume (see Figure 1). Seven wells were screened at the water table and five were screened approximately one hundred feet below the water table (see Figure 2). GCP-10s and GCP-10d (see Figure 2) were installed up-gradient to provide background information on water quality entering the industrial area. GCP-16s was installed within the industrial area, while the remaining nine wells were installed from approximately 400 ft. to 2800 ft. down-gradient of the industrial area. Water level measurements and water quality results were used to determine the extent and movement of groundwater contamination both horizontally and vertically. In addition a detailed industrial survey of the area was performed by NCDH and information was supplied by Garden City Park Water District on the development of the industrial area (see Appendix A). Preliminary findings, though helpful in establishing the chronology of occupants and chemicals used within the industrial area, failed to identify any current major users of the chemicals of concern. The aerial photographs verify that industrial activity was occurring as early as 1950.

Water Quality of the Study Area

Two rounds of water quality testing at all monitoring wells were performed during the six month period from January 1992 through June 1992 (see Table 1).

The greatest concentration of TVOC's at the water table is found at GCP-1 with a high of 13,128 ug/l, primarily made up of PCE (13,000 ug/l). Down gradient wells GCP-7 and GCP-8 show lesser though still significant amounts of TVOC's. The down-gradient deeper wells showed greater concentrations of TVOC's than the water table wells located at the same sites. This indicates that the plume is moving vertically as it migrates to the southwest (see Figure 3). The extent of this migration is not known but is assumed to be quite extensive based on the concentrations of TVOC's found in well cluster GCP-14s and GCP-14d, which were originally installed to define the down-gradient boundary of the plume. Well GCP-14d contained the greatest concentration of TVOC's of all deep monitoring wells with a high of 744 ug/l, while GCP-14s levels ranged from below detectable to 41 ug/l. The presence of this concentration of TVOC's in the down-gradient deep well plus the detection in public supply wells also located down-gradient of the industrial area, may indicate the presence of a widespread plume in the area. A cross section through the industrial park and down-gradient areas (see Figures 4 and 5) shows the inferred extent of the plume. From the data thus far, this appears to be the largest groundwater plume of VOC's identified in Nassau County.

Groundwater Flow Direction

In defining a plume, knowledge of both past and present groundwater flow directions is needed. The current water table contours indicate groundwater flow in the southwest direction. In the past however, flow paths were altered by heavy public supply well pumping in Brooklyn and in Queens Counties. This pumping created a large cone of depression in both the Upper Glacial and Magothy aquifers. This phenomena could have accelerated the rate of groundwater flow and even changed groundwater flow direction. Figure 6 shows water table contours from four different time periods. It demonstrates how contamination could have migrated westerly towards the Queens border during periods of heavy pumping. When pumping levels decreased in the 1980's

groundwater flow direction changed to a southwesterly direction. Localized pumping could also affect groundwater flow patterns. These factors combined could cause the plume of contaminants to impact a wider area.

Impact of Plume

Based on preliminary results of this study and information on groundwater flow, it appears that 17 public supply wells (see Figure 7) may have been or are currently impacted to some degree by a single plume emanating from the industrial area located in Garden City Park (see Table 2). Currently raw water quality in thirteen of the seventeen wells contains VOC's in excess of current drinking water standards. Raw water quality in the remaining four wells is presently within drinking water standards, however, in the past VOC concentrations did exceed the standard of 5.0 ug/l for an individual constituent which led to their voluntary removal from service by the water suppliers. This is most likely due to the screen depths of these wells. The majority of the wells that contain VOC's in excess of drinking water standards are screened within the lower or basal Magothy, while the wells that currently meet the standards are screened much shallower. This indicates that the source may be found at some distance from the wells, thus allowing the contaminants time to penetrate beneath the screen zones of the shallower wells and to impact the deeper wells. Concentrations of TVOC's in the down-gradient public supply wells decrease as the plume disperses. An additional well cluster recently installed between down-gradient public supply well locations in Floral Park provides additional evidence of a plume migrating deep into the area. The deeper of these wells, which is also screened in the basal Magothy, shows TVOC's in the same range as the supply wells while the shallower well shows TVOC's at only detectable levels. To allow for the extensive migration of the plume, the contaminants in question would have to be present in the groundwater for a significant length of time. This is supported by the detection of the

contaminant(s) in all 17 public supply wells at or around the time when analysis for organic chemicals were first required (see Table 3). It has been documented by aerial photographs that industrial activity began as early as 1950. Testing for organic chemicals in public supply wells was first required in 1977. Nearly 30 years had elapsed before the wells were analyzed for VOC's, which allows enough time for the plume to migrate into the vicinity of the impacted wells. Unfortunately, we cannot determine when each well became impacted implicating an approximate rate of travel of the plume, however, the near simultaneous impaction of the wells is explained.

Conclusions

Analytical data suggests that a groundwater plume of VOC's emanating from the Garden City Park industrial area is migrating both horizontally and vertically in the down-gradient direction. From the data thus far, it appears to be the largest groundwater plume of this type identified in Nassau County. Seventeen public supply wells may have been or are currently impacted by this plume. Preliminary results of an industrial survey performed on present occupants of the Garden City Park industrial area does not identify any major uses of the contaminants of concern. Additional work is needed to further determine the extent and actual source(s) of the plume.

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TABLE-1

GARDEN CITY PARK GROUNDWATER QUALITY STUDY

RANGE OF MONITORING WELL QUALITY

LOCAL #	NYSDEC N#	SCREEN INTERVAL (ft)	"HOT-SPOTS" STUDY 1984-86 (d)				ROUTINE MONITORING 1986-91				GARDEN CITY PARK STUDY 1992			
			TVOCs	PCE (c)	TCE (c)	TCA (c)	TVOCs	PCE (c)	TCE (c)	TCA (c)	TVOCs	PCE (c)	TCE (c)	TCA (c)
GCP-1	10330	49-59	3,436 - 51,210	3,400 - 50,000	3 - 350	32 - 80	371 - 4,143	360 - 3,700	2 - 160	7 - 89	1,425 - 13,128	1,400 - 13,000	11 - 75	5 - 17
GCP-2	10331	49-59	71 - 590	17 - 200	54 - 440	BDL - 8	154 - 574	48 - 230	7 - 52	2 - 260	132 - 133	43 - 44	18 - 48	17 - 59
GCP-3	10481	30-40	BDL - 347 (b)	BDL - 240	BDL - 82	BDL - 9	25 - 313	2 - 6	17 - 220	BDL	21 - 151	4 - 12	12 - 89	BDL
GCP-4	10482	51-61	153 - 345	120 - 300	28 - 40	5 - 5	16 - 233	9 - 120	3 - 10	3 - 89	187 - 755	38 - 92	120 - 620	34 - 36
GCP-5	10483	49-59	530 - 1,287	310 - 450	210 - 830	7 - 10	173 - 426	96 - 300	40 - 71	30 - 38	155 - 203	55 - 87	21 - 24	68 - 68
GCP-6	10484	45-55	BDL	BDL	BDL	B.D.L.	BDL - 5	BDL - 5	BDL	BDL	34 - 35	11 - 11	23 - 23	BDL
GCP-7	10485	55-65	1,873 - 2,572	1,700 - 2,300	60 - 100	85 - 110	85 - 30,418	50 - 29,000	29 - 830	3 - 53	446 - 474	280 - 430	18 (e)	25 - 34
GCP-7D	11733	146-166	---	---	---	---	---	---	---	---	227 - 265	170 - 230	10 - 15	16 - 26
GCP-8	10486	50-60	102 - 351	67 - 250	BDL - 1	BDL - 100	85 - 358	28 - 320	BDL - 3	28 - 46	79 - 2,207	72 - 1,600	1 - 87	5 - 29
GCP-9	10487	51-61	35 - 36	16 - 36	BDL	BDL	BDL - 18	BDL - 17	BDL	BDL - 1	5 - 11	4 - 11	BDL	BDL
GCP-10S	11737	34-54	---	---	---	---	---	---	---	---	BDL - 4	BDL - 4	BDL	BDL
GCP-10D	11729	88-108	---	---	---	---	---	---	---	---	BDL - 2	BDL - 2	BDL	BDL
GCP-11S	11738	39-59	---	---	---	---	---	---	---	---	BDL - 9	BDL - 8	BDL - 1	BDL
GCP-12S	11739	37-57	---	---	---	---	---	---	---	---	BDL - 18	BDL - 16	BDL - 2	BDL
GCP-12D	11734	143-163	---	---	---	---	---	---	---	---	102 - 268	70 - 210	34 - 50	BDL - 2
GCP-13S	11956	32-52	---	---	---	---	---	---	---	---	24 - 39	21 - 30	2 - 7	BDL
GCP-13D	11735	145-165	---	---	---	---	---	---	---	---	143 - 189	51 - 66	91 - 120	BDL
GCP-14S	11957	35-55	---	---	---	---	---	---	---	---	BDL - 41	BDL - 39	BDL	BDL
GCP-14D	11736	138-158	---	---	---	---	---	---	---	---	451 - 744	420 - 730	5 - 9	10 - 25
GCP-15S	11958	36-56	---	---	---	---	---	---	---	---	BDL - 7	BDL - 7	BDL	BDL
GCP-16S	12005	39-59	---	---	---	---	---	---	---	---	5 - 37	BDL - 10	2 - 24	BDL - 2
E9B	9944	75-80	---	---	---	---	10 - 168	BDL - 20	BDL - 363	6 - 134	9 - 13	2 - 2	2 - 2	5 - 6
M-6	11171	210-230	---	---	---	---	127 - 193	24 - 71	88 - 119	BDL - 3	127 - 128	38 - 42	85 - 86	BDL
M-51 (a)	12114	400-420	---	---	---	---	---	---	---	---	10.7	BDL	8.6	BDL
M-52 (a)	12113	175-195	---	---	---	---	---	---	---	---	1.6	BDL	BDL	0.5
E-10 (a)	1126	70.3-73.3	---	---	---	---	---	---	---	---	BDL	BDL	BDL	BDL

all results in µg/l= micrograms per liter(parts per billion)

(a) Well sampled once

(b) BDL - "Below Dectection Limit"

(c) PCE - Tetrachloroetylhene

TCE - Trichloroethylene

TCA - 1,1,1-Trichloroethane

(d) Investigation of Contaminated Aquifer Segments, Nassau County, New York, Performed By Dvirka and Bartilucci and NCDH. June 1986

(e) Only one result due to technical reasons

TABLE-2

GARDEN CITY PARK GROUNDWATER QUALITY STUDY

RAW WATER QUALITY AND STATUS OF PUBLIC WATER SUPPLY WELLS

NYSDEC N#	LOCAL #	WATER SYSTEM	SCREEN INTERVAL (ft)	STATUS (b)	MOST RECENT RAW WATER QUALITY RESULTS			REMARKS
					Date	Positive VOCs (µg/l) (c)	TVOCs (µg/l)	
3603	1	FRANKLIN SQ.	443-493	No restrictions - seasonal	2/28/92		BDL (d)	
3604	2	"	438-498	No restrictions - seasonal	2/28/92		BDL	
7117	4	"	378-486	V.R.S.(9/17/91) - treated	8/7/92	TCE-0.9	0.9	
8818	5	"	420-480	V.R.S.(1/8/89) - treated	8/7/92	TCE-9.5	9.5	
5163	12	GARDEN CITY(V)	425-475	V.R.S.(1/8/89) - not used	5/30/92	TCE-12, PCE-1.4	13.4	
1697	8	"	478-518	No restrictions - year-round	7/24/92		BDL	
0095	7	"	474-584	No restrictions - year-round	2/18/92		BDL	
7058	13	"	246-286	V.R.S.(1/8/89) - treated	7/13/92	TCE-14, PCE-1.4	15.4	
8339	14	"	308-358	V.R.S.(1/6/89) - treated	7/13/92	TCE-26, PCE-7.3, Carbon-Tet-2.6	35.6	
3881	9	"	426-466	V.R.S.(1/8/89) - not used	7/21/86	TCE-20, PCE-1	21	
2565	3	GARDEN CITY PK	370-405	V.R.S.(2/11/92) - not used	12/26/91	PCE-18, Carbon-Tet-0.7	18.7	Not used since 1966 - NO3
8409	9	"	340-400	V.R.S.(1/8/89) - treated	6/9/92	TCE-63, PCE-46, C-1,2-DCE-0.8	109.8	Nitrate removal in place
7649	57	JAMAICA	165-205	RESTRICTED(6/7/83) - treated	8/3/92	TCE-150, PCE-19, C-1,2-DCE-3.6	172.6	
7650	57A	"	400-440	RESTRICTED(9/2/86) - treated	8/3/92	TCE-13, PCE-0.8, C-1,2-DCE-0.5	14.3	
4077	35	"	70-90	V.R.S.(1/8/89) - treated	8/3/92		BDL	
4298	35A	"	344-394	V.R.S.(1/8/89) - treated	8/3/92	TCE-14, TCA-2.0, PCE-1.8	18.5	
5155	44	"	70-90	V.R.S.(7/30/90) - treated	8/4/92		BDL	
5156	44A	"	291-331	V.R.S.(7/31/90) - treated	8/4/92	TCE-26	26	
6744	44B	"	74-94	No restrictions - treated	8/4/92		BDL	
6745	44C	"	304-344	V.R.S.(11/6/89) - treated	8/4/92	TCE-7.6, PCE-0.5	8.1	
0693	15D	"	68-93	V.R.S.(7/30/90) - not used	1/23/92		BDL	Restricted NO3 (5/90)
9151	15A	"	380-420	No restrictions - year-round	7/29/92	Chloroform-0.6	0.6	
11037	15B	"	420(a)	No restrictions - year-round	1/20/92	PCE-0.6	0.6	
10207	15E	"	379-460	No restrictions - year-round	7/29/92		BDL	
10206	15C	"	374-440	No restrictions - year-round	7/29/92		BDL	
3185	4	MINEOLA	423-463	V.R.S.(11/16/89) - treated	7/23/92	TCE-29, PCE-15	44	

µg/l= micrograms per liter(parts per billion)
(a) Total Depth
(b) V.R.S. - Voluntarily Removed From Service
(c) TCE - Trichloroethylene; PCE - Tetrachloroethylene; Carbon-Tet - Carbon Tetrachloride; C-1,2-DCE - Cis-1,2-Dichloroethylene; TCA - Trichloroethane; NO3 - Nitrates
(d) BDL -"Below Detection Limit"

TABLE-3

GARDEN CITY PARK GROUNDWATER QUALITY STUDY

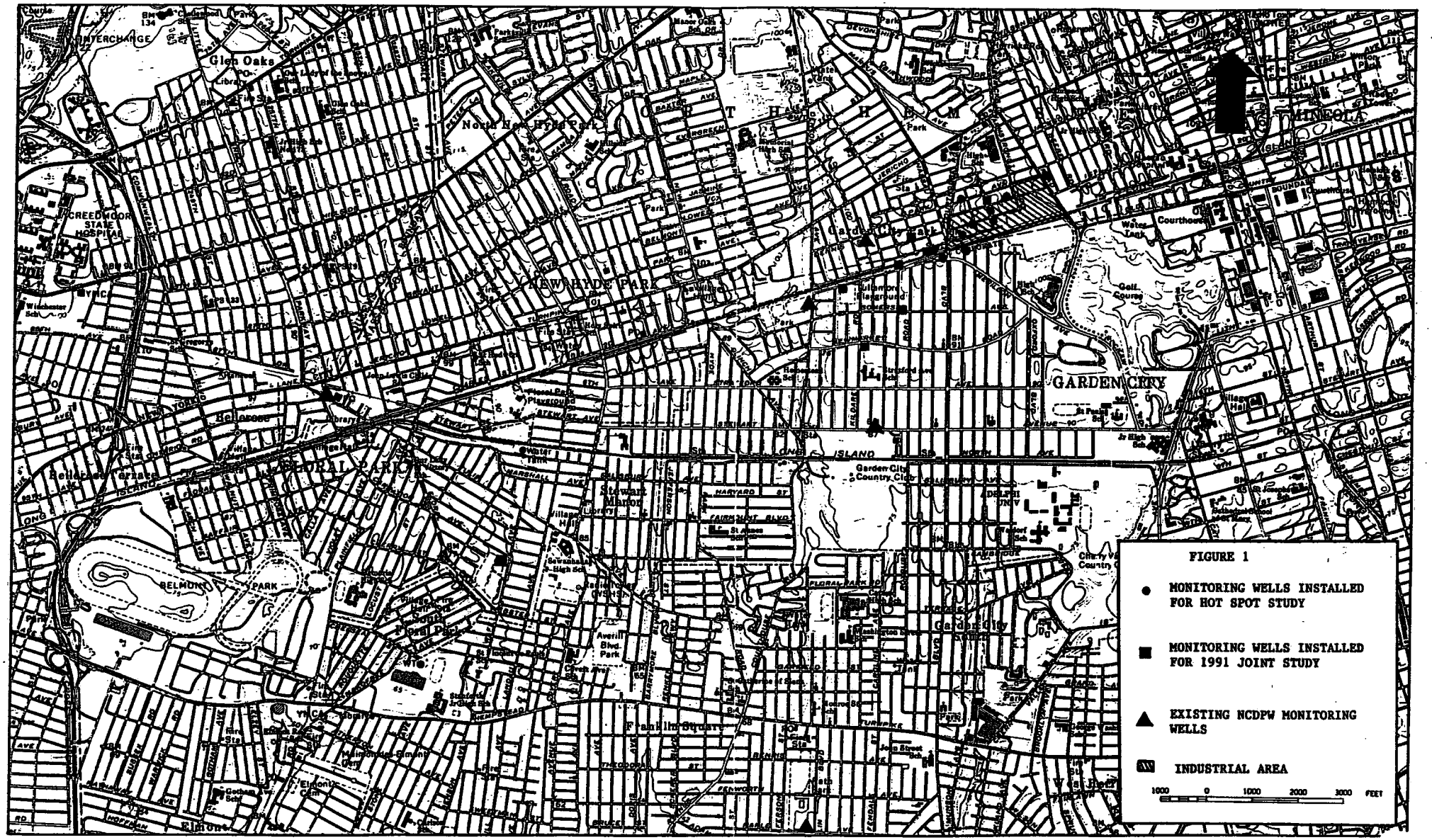
PUBLIC SUPPLY WELL INITIAL VOC TESTING AND DETECTION

NYSDEC N#	WATER SYSTEM	SCREEN INTERVAL (ft)	INITIAL VOC TESTING		VOCs FIRST DETECTED		REMARKS
			DATE	RESULT	DATE	RESULT	
7117	FRANKLIN SQ	378-486	9/27/77	N.D.	10/19/78	TCE-4	
8818	"	420-480	9/27/77	PCE-5	SAME	SAME	
7058	GARDEN CITY (V)	246-286	11/16/77	N.D.	9/25/79	TCE-1	
8339	"	308-358	11/16/77	N.D.	9/18/79	TCE-1	
3881	"	426-466	11/16/77	N.D.	10/7/80	TCE-3	
5163	"	425-475	5/31/77	N.D.	12/22/80	TCE-1	
2565	GARDEN CITY (PK)	370-405	9/22/77	PCE-27	SAME	SAME	Not used since 1966-NO3
8409	"	340-400	9/22/77	N.D.	5/2/78	PCE-1	Nitrate removal in place
7649	JAMAICA	165-205	11/18/77	TCE-4, PCE-6	SAME	SAME	
7650	"	400-440	5/12/77	N.D.	11/18/77	TCE-10	
4077	"	70-90	8/15/77	N.D.	9/6/77	TCE-4	
4298	"	344-394	5/30/85	TCE-1, PCE-1, TCA-5	SAME	SAME	
5155	"	70-90	9/6/77	PCE-12	SAME	SAME	
5156	"	291-331	11/18/77	N.D.	4/27/81	PCE-1	
6745	"	304-344	5/12/77	N.D.	3/8/79	PCE-1	
0693	"	68-93	8/24/77	N.D.	1/4/78	PCE-3	
3185	MINEOLA	423-463	9/7/77	PCE-11	SAME	SAME	

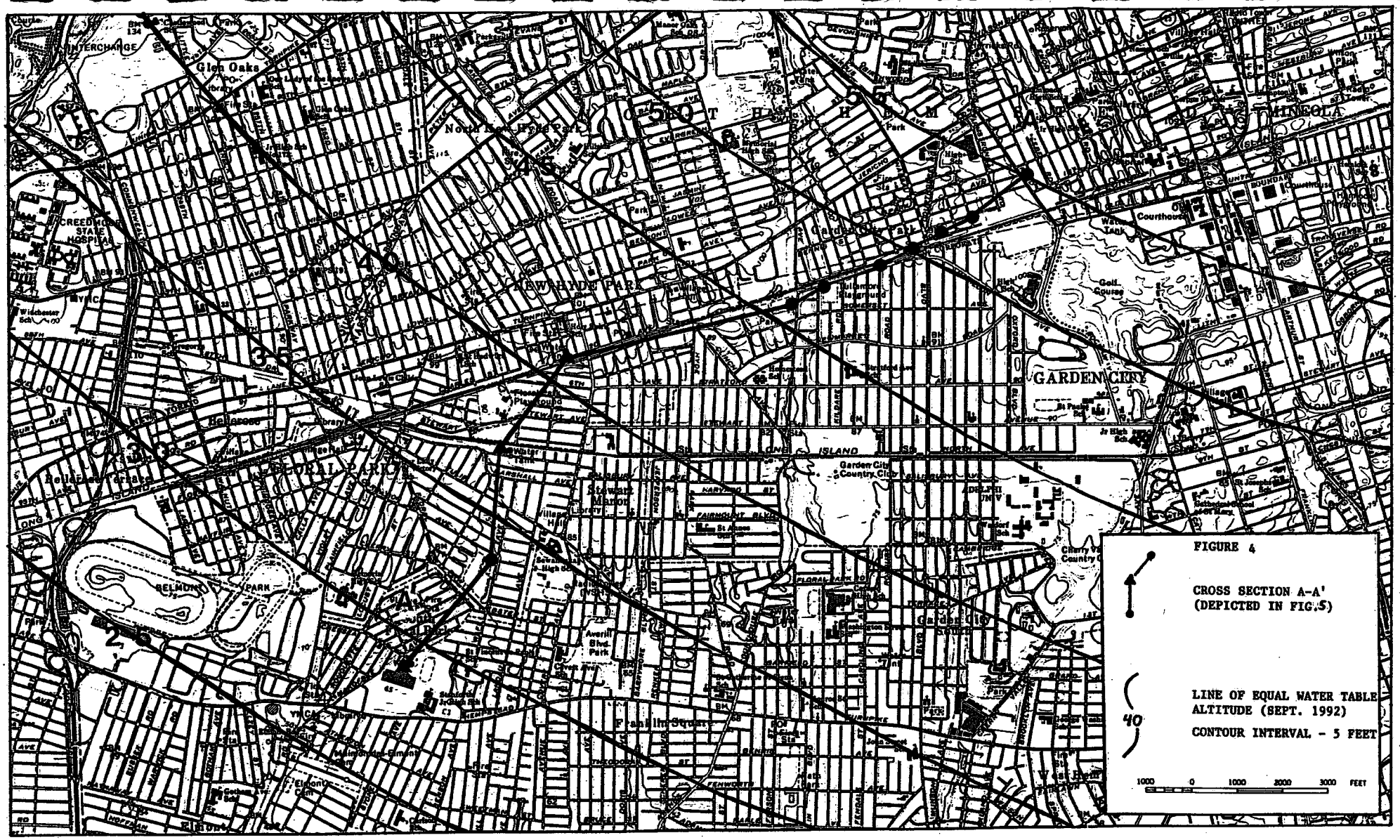
all results in micrograms per liter(parts per billion)

VOCs- Volatile organic chemicals

TCE- Trichloroethylene PCE- Tetrachloroethylene TCA- 1,1,1-Trichloroethane



Source: USGS Topo 1969, Lynbrook Quad



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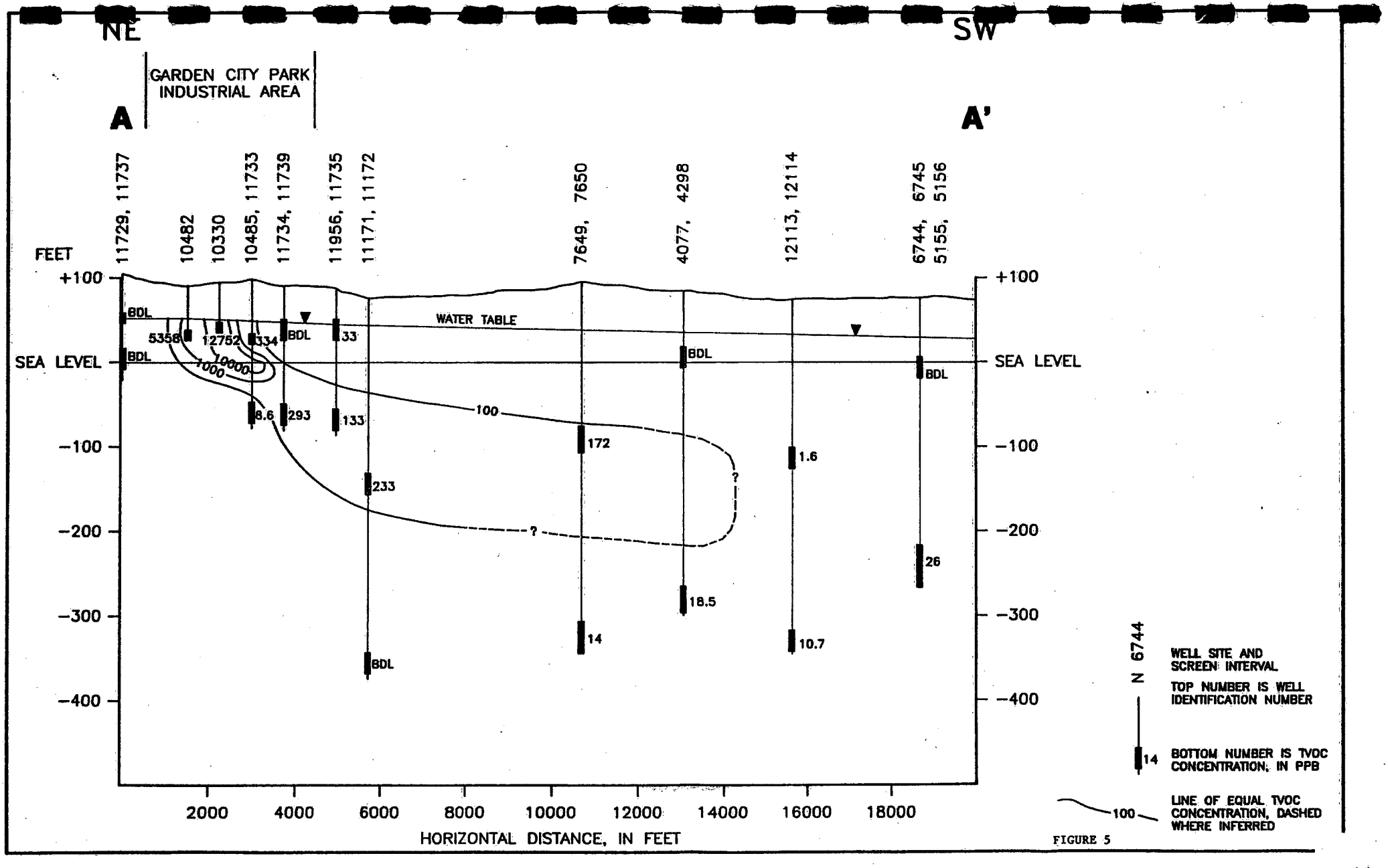
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SW
GARDEN CITY PARK INDUSTRIAL AREA
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10330
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11171, 11172
7649, 7650
4077, 4298
12113, 12114
6744, 6745
5155, 5156
FEET
+100
SEA LEVEL
-100
-200
-300
-400
WATER TABLE
BDL
5358
12752
334
33
8.6
293
133
233
172
14
18.5
1.6
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26
1000
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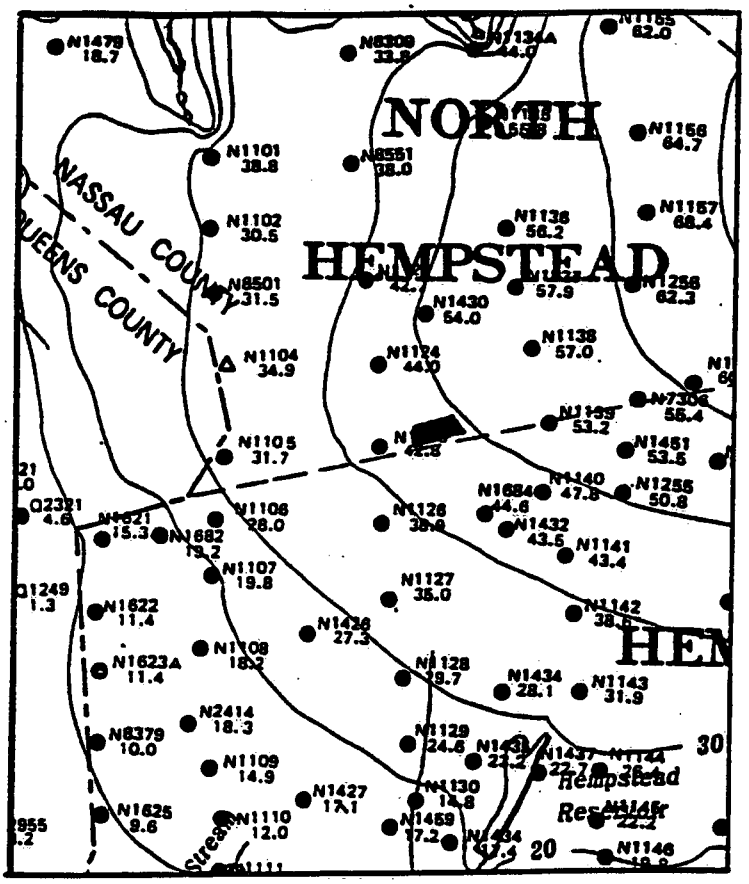
HORIZONTAL DISTANCE, IN FEET
N 6744
WELL SITE AND SCREEN INTERVAL
TOP NUMBER IS WELL IDENTIFICATION NUMBER
BOTTOM NUMBER IS TVOC CONCENTRATION, IN PPB
LINE OF EQUAL TVOC CONCENTRATION, DASHED WHERE INFERRED

FIGURE 5



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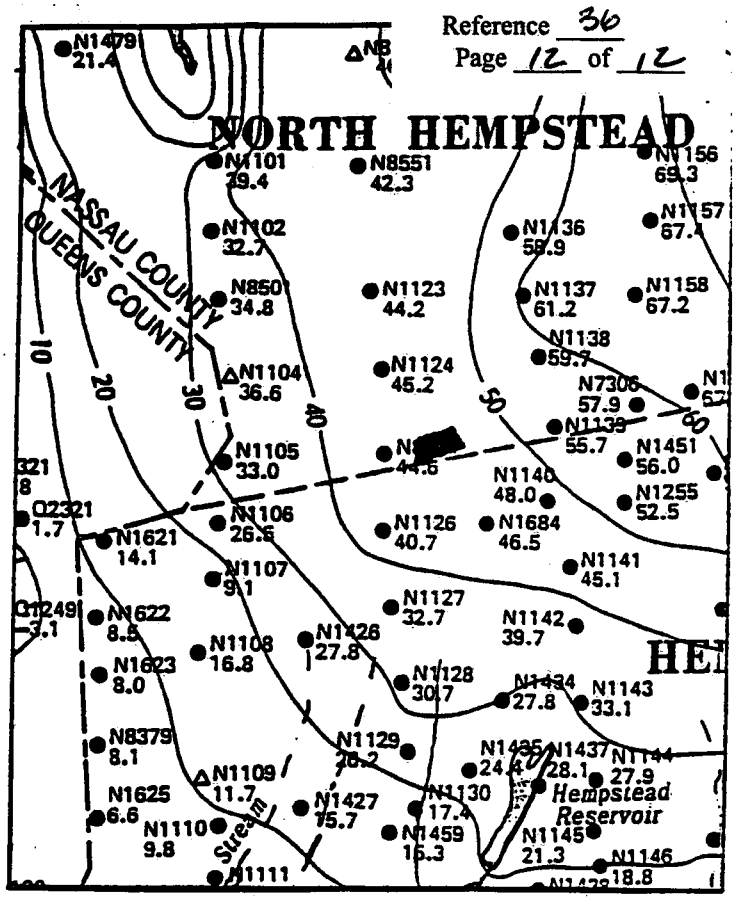

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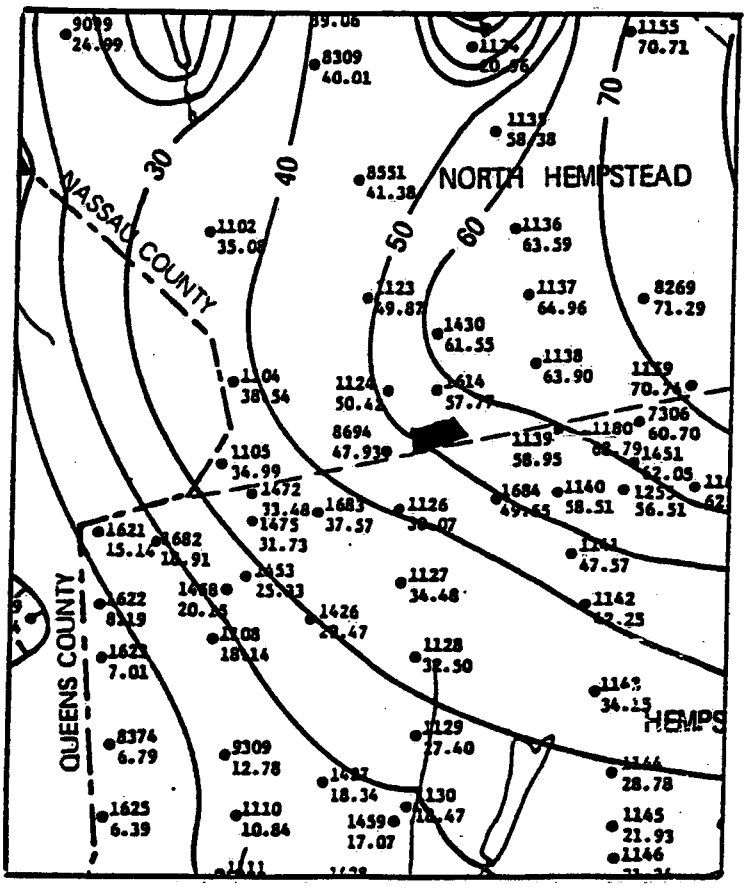
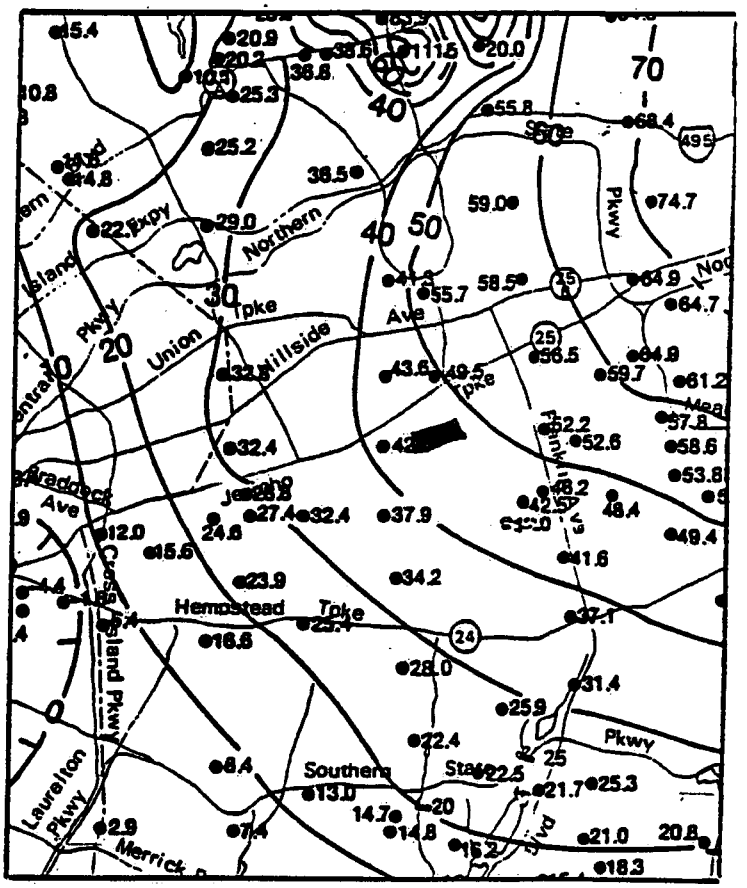


1979



1984

FIGURE 6

Groundwater Elevation Maps from Various Years

0 1 2 3 4 5 MILES

REFERENCE 37

NEW YORK
STATE
DEPARTMENT
OF
HEALTH

HOLLIS S. INGRAHAM, M.D.
Commissioner

Prepared for
WATER RESOURCES
COMMISSION

Reference 37
Page 1 of 19

SURVEY REPORT
NO. 62

UNDERGROUND WATERS OF NASSAU COUNTY

Recommended Classifications and Assignment of Standards of Quality and Purity for Designated Waters of New York State

PART 5 WATER RESOURCES

5.1 GROUND WATER SOURCES

5.1.1 Occurrence of Ground Water

Aquifers in Long Island contain fresh water in considerable magnitude. Except for the parts of the morainal areas that are underlain by clayey till, and other areas underlain by clay, the upper Pleistocene deposits absorb water and readily transmit it downward to the water table. The upper Pleistocene deposits are recharged entirely by local precipitation. Some is transmitted downward to the underlying formations while some is transmitted through the upper Pleistocene deposits to discharge directly into the atmosphere, into the ocean, or into the bays and streams which flow to the ocean.

Overlying other permeable aquifers, the upper Pleistocene deposits serve as water-catchment and temporary storage units for the deeper aquifers. Because of their permeability, thickness, and wide-spread occurrence, they are one of the most productive geologic units.

Water in the Jameco gravel occurs under artesian or semi-artesian conditions, being confined in varying degrees by the overlying Gardiners clay. Some of the recharge to the Jameco gravel occurs through the more leaky and permeable parts of the Gardiners clay where the hydraulic gradient is favorable, and significant replenishment for that unit may also come from the underlying Magothy formation.

Ground water reaches the Magothy only after percolating through the upper Pleistocene deposits. It is generally confined, less in the upper parts

and more in the deeper parts of the formation where the confining effects of beds of low permeability are felt. Along and near the southern shore, wells in the Magothy formation occasionally flow under artesian pressure.

The water in the underlying Lloyd sand member is held under artesian pressure due to its capping by the Raritan clay member. In central parts of the Island, the hydraulic gradient is downward from the overlying formations to the Lloyd. Thus, recharge can take place either by slow and devious percolation through and around the lenses of clay or silt, or possibly as postulated by some geologists through erosional gaps in the clay member. Near the shores the water movement is generally upward from the Lloyd sand member to the overlying deposits.

5.1.2 Ground Water Levels

The ground water levels are fluctuating constantly in response to change in storage and head in the ground water reservoir. Natural water level fluctuations are related to ocean tides, changes in atmospheric pressure, and seasonal variation in recharge from precipitation. Periodic and direct transfer of water between the ocean and the ground water reservoir in the littoral zone is one cause of tidal fluctuations in wells. Another cause is the alternating compression and expansion of the confined aquifers caused by the loading of sea water at high tide and the unloading at low tide. The principal man-made causes of water level fluctuations are the withdrawal of ground water by pumping from wells and infiltration galleries and the return of water artifically to the ground through cesspools, diffusion wells and recharge basins. Pumping a well removes water from storage in the ground water reservoir and depresses th

ater table locally and areally. Prolonged or intermittent pumping from one or a group of wells may cause a decline of water levels in other wells. Artificial return of water to the ground has the opposite effect, the water table being aised in the area adjacent to the points of return.

Ground water level investigations have been cooperatively carried on by Nassau and Suffolk Counties, the United States Geological Survey and the ew York State Water Resources Commission since 1935. Map 6 shows the round water level contours for Nassau County. Figure 5 presents three profiles showing the ground water table in Nassau County.

Most wells in Nassau County show water level fluctuations related to easonal and long term variations in recharge from precipitation. These fluctuations are most apparent in shallow wells tapping water bearing sands nd gravels of the upper Pleistocene deposits. Seasonal fluctuations in wells apping the deeper aquifers of the Magothy formation and the Lloyd sand member of the Raritan formation are less apparent because they are recharged ndirectly through the overlying upper Pleistocene deposits and may be masked y pumping effects. In most wells there is generally a rise in water level during the winter and spring months and a decline in water level during the ummer and autumn months. A composite hydrograph for 14 shallow wells in assau and Suffolk Counties compared with accumulated departures from mean monthly precipitation is reproduced from Report GW-41 of the New York State Water Power and Control Commission (now Water Resources Commission) and resented as Figure 6.

5.1.3 Recharge and Storage Changes

All recharge to the ground water reservoir originates in precipitation and is ultimately discharged to the sea or to the atmosphere following the hydrological cycle. Recharge can be equated to discharge considering the changes in storage volume of the ground water.

For the purpose of understanding and determining this ground water equation, the factors of recharge and discharge are considered to consist of the following principal categories.

Recharge consists of:

a. Precipitation which enters the ground water table directly.

b. Precipitation which enters the ground water table through recharge basins.

c. Discharge of waste water into the ground such as sewage disposal systems, diffusion wells and leakage from underground pipes.

Discharge consists of:

a. Evaporation and transpiration.

b. Outflow to salt water including seepage to streams and subsurface flow.

c. Pumpage from wells.

d. Infiltration into sewers.

e. Underground flow to adjacent areas.

11.3 ANALYSES OF PUBLIC WATER SUPPLIES

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = <0.02 mg/l	Manganese O = <0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Albertson Water District	Shepard La.	3732	350	M	Chlorination & Corrosion Control	1-30-62	R	0	0	0	18.0	6.06	9	24	0	0		.026	.016	.007	3.8	8.2	0.8	0	0
	" "	3733	450	M	"	1-30-62	"	0	5.1	0	17.0	6.05	9	16	0	0	67	.004	.002	.003	3.0	5.4	1.0	0	0
	Albertson Pkwy.	4327	425	M	"	1-30-62	"	0	0	0	14.0	6.01	6	18	0	0	57	.004	.002	.001	0.15	7.0	0.7	0	0
	Marci Lee Dr.	5947	365	M	"	2-28-62	"	0	0	0	8.0	6.38	10	26	0	0	80	.002	.002	.003	4.5	8.8	0.5	0	0
Bayville, Village of	Water Purchased from Locust Valley Water District																								
Bethpage Water District	Hay Path Rd. & Central Park Rd.	3142	163	M	Chlorination																				
	" " "	3147	233	M	"																				
	Park La. & Rose St.	3876	386	M	"	11-14-61	R	0	1.0	0	75.0	4.90	3	6	0	0	23	.002	.016	.003	1.5	5.6	0.5	0	0
	Adam Ave.	4063	233	M	"	11-14-61	"	0	0	0	27.0	5.20	2	80	0	0	203	.002	.016	.004	11.2	14.2	0.8	.05	0
	" "	4146	212	M	"	11-14-61	"	0	0	0	6.0	5.85	2	20	0.04	0	69	.002	.004	.004	5.6	9.0	0.6	0	0
	" "	6078	275	M	"	2-6-62	"	0	0	0	9.0	5.60	2	38	0	0	109	.002	.002	.001	7.9	12.4	0.5	0	0
	Sophia St.	6915	475	M	"	9-28-61	"	0	2.8	0	22.0	5.54	4	8	0.09	0	37	.002	.002	.001	0.7	4.0	0.5	0	0
	" "	6916	605	M	"	9-28-61	"	0	5.8	0	19.0	5.86	7	8	1.37	0	32	.002	.002	.002	0.07	3.0	0.5	0	0
Bowling Green Estates Water District	Water Purchased from Westbury Water District																								
Carle Place Water District	Guinea Woods Rd.	2747	327	M	Fluorine & Caustic Soda	1-10-62	R	0	0	0	8.5	6.00	4	36	0	0	102	.002	.002	.003	7.3	14.2	1.0	0	
	" " "	2748	326	M	"	1-10-62	"	0	0	0	26.0	5.62	5	50	0	0	120	.002	.012	.002	6.5	14.2	0.9	0	
	Asbury Ave. & Cherry La.	4206	355	M	"	1-10-62	"	0	0	0	25.0	6.01	12	30	0	0	71	.002	.002	.002	3.1	8.6	1.0	0	
	" "	6315	348	M	"	1-10-62	"	0	0	0	48.0	5.77	13	24	0	0	67	.002	.002	.003	3.8	7.8	0.5	0	
Citizens Water Supply Co.	Cherry La.	30	203	L		6-11-62	"	0	0	0	6.5	7.16	45	48	0.04	0	115	.002	.002	.002	0.04	5.0	0.7	0	
	Cherry La., Kings Point	31	233	L	None	6-1-62	"	0	0	0		7.06	38	50	0.05	0	97	.002	.002	.004	0.65	8.4	0.6	0	
	Old Mill Rd., Saddle Rock	687	310	L	"	6-12-62	"	0	0	0		6.91	45	50	0.22	0	70	.002	.002	0	0.17	4.6	1.0	0	
	Cedor Dr., Great Neck Estates	1298	336	L	"	6-12-62	"	0	2.8	0		6.78	43	50	0.11	0	99	.002	.002	.002	0.30	5.0		0	

NOTES:
(1) Geological Formation: G = Glacial (Pleistocene), J = Jameco, M = Magothy, L = Lloyd
(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/l except noted and pH value.

11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = < 0.02 mg/l	Manganese O = < 0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Citizens Water Supply Co. (Continued)	Cutter Mill Rd.	22	145	M		1-4-62	R	0	0	0	20.0	6.59	40	56	0.09	0	101	.002	.002	.002	1.25	7.8	0.6	0	0
	Cutter Mill Rd.	23	434	L	Calgon &	1-4-62	"	0	0	0	15.0	6.72	41	56	0	0	111	.002	.002	.002	1.45	8.4	0.6	0	0
	(Common Suction)	1881	420	L	Chlorine	6-12-62		0	0	0	14.0	6.81	41	48	0	0	85	.002	.002	0	0.84	4.8	0.9	0	0
	" "	1882	163	M	"																				
	" "	1887	355	L	"																				
	" "	1889	386	L	"																				
	" "	1891	384	L	"																				
	" "	1892	150	M	"																				
	" "	1893	145	M	"																				
	" "	1895	162	M	"																				
	" "	1900	60	G	"																				
	" "	700	70	G	"	6-12-62		0	0	0	16.0	6.68	41	56	0.02	0	97	.002	.002	.001	1.26	5.2	1.0	0	0
	Potters Lane, Great Neck	2214	286	L	None	6-11-62	R	0	0	0		7.68	80	90	0.03	0	162	.008	.002	.007	0.71	5.2	0.6	0	0
	Fairview Rd., Great Neck	3443	463	L	"	6-11-62	"	0	0	0		6.89	45	68	0.04	0	165	.002	.002	.002	3.05	10.6	0.6		0
	Water Mill Rd., Great Neck	4388	145	M	"	1-4-62	"	0	0	0		6.61	49	88	0	0	154	.002	.002	0	2.3	11.2	0.7	0	0
	Eastshore Rd Great Neck	5884	163	M	"	6-11-62	"	0	0	0		7.09	42	46	0.03	0	142	.002	.002	0	1.75	6.4	1.0	0	0
East Meadow Water District	Prospect Ave.	3456	320	M	Chlorine & Lime	6-29-62	"	0	0	0	10.0	5.29	1	56	0.04	0	143	.002	.002	0	9.0	17.4	1.0	0	0
	" "	3457	320	M	"	5-29-62	"	0	0	0	6.5	5.75	2	12	0	0	59	.002	.002	.002	2.2	5.8	0.9	0	0
	" "	3465	315	M	"	5-22-62	"	0	0	0	13.0	5.19	1	28	0	0	84	.002	.002	.005	4.8	8.6	1.0	0	0
	" "	4447	330	M	"	5-22-62	"	0	0	0	25.0	5.20	2	20	0	0	65	.002	.002	0	4.4	7.2	0.9	0	0
	Franklyn Ave.	4448	550	M	"	5-22-62	"	0	0	0	12.0	5.91	5	8	0	0	27	.002	.002	0	0.03	3.6	0.7	0	0
	Mitchell St.	5318	310	M	"	4-27-62	"	0	1.6	0	26.0	5.21	2	6	0.32	0	22	.004	.002	0	0.01	3.8	0.9	0	0
	" "	5319	438	M	"	8-21-62	"	0	6.9	0	21.0	5.85	3	6	0.42	0	43	.002	.002	.002	0.09	4.2	0.9	0	0
	" "	5320	379	M	"	5-22-62	"	0	0	0	12.0	5.22	1	8	0.53	0	36	.002	.002	0	0	3.4	1.1	0	0
	Cypress Ave.	5321	509	M	"	2-27-62	"	0	0	0	4.5	5.64	1	2	0.13	0	20	.002	.002	0	0.08	3.6	0.7	0	0
	Bellmore Rd.	5322	510	M	"	6-29-62	"	0	0	0	15.1	5.71	4	6	0.04	0	28	.012	.002	0	0.14	3.4	1.0	0	0
East Williston Water District	Served by Village of Mineola																								
Farmingdale, Village of		525	68	G	(Abandoned)																				
	Eastern Pkwy.	706	70	M	None	12-4-61	R	0	1.8	0	24.0	5.22	2	14	0	0	43	.002	.002	.002	2.25	6.8	0.5	0	0

NOTES:
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11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = < 0.02 mg/l	Manganese O = < 0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Farmingdale, Village of (Continued)	Ridge Rd.	1937	146	M	None	11-20-61	R	0	0	0	130.0	4.50	2	10	0	0	58	.002	.010	.002	1.62	6.6	0.6	0	0
	" "	6644	222	M	"	11-20-61	"	0	0	0	85.0	4.85	3	10	0.02	0	38	.002	.002	.003	1.65	7.6	0.5	0	0
Franklin Square Water District	Court House	3603	493	M	Chlorine (Emergency)	6-25-62	R	0	0	0	1.5	7.01	8	18	0	0	39	.002	.002	.001	2.4	6.2	0.5	0	0
	" "	3604	498	M	"	6-25-62	"	0	0	0	7.5	6.19	6	22	0	0	37	.002	.002	.001	2.5	6.4	0.7	0	0
	Arlington	3605	443	M	"	6-25-62	"	0	0	0	13.0	5.91	5	18	0.18	0	26	.002	.002	.002	0.21	6.2	0.6	0	0
	Theodora & Catherine	7117	478	M		8-14-62	"	0	0	0	13.0	6.02	7	14	0	0	37	.002	.002	0	0.88	5.2	0.4	0	0
Freeport, Village of		131	523	M	(Discontinued)																				
		132	506	M	Lime & Calgon	2-8-62	R	0	0	0	42.0	5.00	2	4	0.32	0	20	.002	.004	.001	0.05	3.2	0.9	.05	0
		133	511	M	"	2-8-62	"	0	1.3	0	41.0	5.00	2	4	0.42	0	21	.002	.002	.002	0.04	3.0	0.6	0	0
		134	517	M	"	2-20-62	"	0	0	0	13.0	5.20	1	2	0.50	0	27	.002	.002	0	0	2.8	1.0	0	0
		68	500	M	"	2-8-62	"	0	1.0	0	34.0	4.80	1	2	0.32	0	22	.002	.002	.001	0.03	4.2	0.5	0	0
		69	500	M	"	2-8-62	"	0	5.1	0	24.0	4.95	1	2	0.70	0	24	.004	.002	.002	0.06	3.6	0.9	0	0
		5695	526	M	Lime	2-8-62	"	0	0	0	18.0	5.09	1	2	0.30	0	23	.004	.002	.007	0.09	3.2	1.0	0	0
		5696	518	M	"	2-8-62	"	0	0	0	20.0	4.99	1	2	0.32	0	20	.004	.002	0	0.03	3.6	0.7	0	0
Garden City Park Water District	Herricks Rd.	650	345	M	Chlorine (Emergency)	7-3-62	R	0	0	0	20.0	6.09	12	24	0	0	40	.002	.002	0	3.15	6.2	0.5	0	0
	" "	651	346	M	"	7-16-62	"	0	0	0	16.0	6.12	10	36	0	0	111	.002	.002	.005	5.30	9.6	0.5	0	0
	Marcus Ave. & Jericho Tpke.	2565	405	M	"	7-3-62	"	0	0	0	32.0	5.98	16	66	0	0	147	.002	.002	0	8.8	11.2	0.6	0	0
	Denton Ave. & Marcus Ave.	3672	447	M	"	7-2-62	"	0	0	0	21.0	5.88	8	28	0	0	90	.002	.002	0	3.25	7.2	0.6	0	0
	" "	3673	429	M	"	1-10-62	"	0	0	0	26.0	5.85	10	56	0.06	0	139	.002	.002	.001	5.0	11.4	1.0	0	0
	Denton Ave. & Hickory	5603	415	M	"	7-3-62	"	0	0	0	24.0	6.13	16	34	0.02	0	65	.002	.002	0	2.05	6.6	0.7	0	0
	Shelter Rock Rd. - North Hills	6945	401	M	"	7-3-62	"	0	0	0	14.0	6.36	16	28	0	0	64	.002	.012	.002	1.50	6.2	0.7	0	
Garden City South Water District	Served by West Hempstead-Hempstead Gardens Water District																								

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Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = <0.02 mg/l	Manganese O = <0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Garden City, Village of	Franklin & 11	91	82	G		4-24-62	R	0	0	0	8.2	5.62	9	56	0.02	0.2	176	.002	.002	.002	1.20	43.0	1.0	0	0
	Hilton & 11	93	78	G		8-26-59	"	0	1.6	0	21.0	4.90	8	54	0.22	0	155	.002	.002	.001	4.50	18.0	0.7	0	
	" "	94	372	M		8-21-62		0	5.8	0	20.0	5.49	3	32	0.55	0	127	.004	.002	.005	.76	28.4	0.5	0	0
	" "	95	534	M		3-13-62	R	0	0	0	20.0	5.66	5	10	0	0	37	.006	.002	.002	0.35	9.0	0.5	0	0
	" "	1697	518	M		4-17-62	"	0	0	0	24.0	5.56	4	10	0	0	25	.004	.004	.005	1.05	5.4	0.6	0	0
	Stewart Ave.	3881	466	M		4-24-62	"	0	0	0	19.0	5.93	8	26	0	0	50	.002	.002	.001	1.95	5.8	0.9	0	0
	Clinton Ave.	3934	417	M		4-24-62	"	0	0	0	13.0	5.64	3	36	0	0	94	.002	.002	0	4.30	13.0	0.6	0	0
	" "	3935	410	M		4-17-62	"	0	0	0	26.0	5.40	3	16	0	0	64	.006	.002	.001	3.95	9.0	0.8	0	0
	Hilton & 11	5163	475	M		4-17-62	"	0	0	0	28.0	5.75	7	14	0.13	0	39	.002	.002	0	1.85	6.2	0.6	0	0
	Edgemere Rd.	7058	428	M																					
Glen Cove Plant, Utility & Industries Corp.	Morgan Island Well Pt., Southland Dr.	835	303	L		8-15-62		0	0	0	17.0	6.20	12	30	0	0	37	.002	.002	0	0.42	5.2	0.4	0	0
	Carney St. (Common Suction)	112	45-150	M	Stand by Chlorination	8-9-62	R	0	0	0	6.5	6.54	12	42	0.60	0	100	.004	.020	0	3.25	10.0	0.5	0	0
	" "	802-804	151-162	M	"																				
	" "	808-813	42-56	G	"																				
	" "	815-818	159-169	M	"																				
	" "	3466	172	M	"																				
	Seamen	3892	246	G	Calgon	8-15-62	R	0	0	0	22.0	6.25	19	54	0.04	0	70	.002	.008	0	2.40	7.0	0.4	0	0
	"	5261	230	G	"	8-13-62	"	0	0	0	34.0	6.01	18	36	0.58	0	128	.002	.002	0	5.00	11.2	0.5	0	0
	Nancy Ct.	5762	280	M	"	8-15-62	"	0	0	0	13.0	6.45	17	18	0.02	0	105	.002	.002	0	2.90	7.8	0.4	0	0
Glenwood Water District	Water Purchased from Roslyn Water District																								
Hempstead, Village of	Clinton St.	79	418	M	Aeration, Calgon & Chlorine	12-29-62	R	0	0	0	38.0	5.05	2	8	0.48	0	17	.002	.004	.001	0.02	6.6	1.0	0	0
	" "	80	480	M	"	3-20-62	"	0	4.1	0	34.0	5.37	4	8	0.50	0	33	.002	.002	.001	0.50	5.6	1.0	0	0
	" "	81	420	M	"	3-20-62	"	0	5.8	0	34.0	5.11	2	8	0.58	0	40	.008	.002	.004	0.01	5.6	0.9	0	0
	" "	82	534	M	"	3-20-62	"	0	0	0	26.0	5.52	4	10	0.24	0	42	.002	.002	0	1.40	6.2	0.9	0	0
	" "	83	406	M	"	3-20-62	"	0	7.6	0	30.0	4.91	1	16	0.50	0	45	.002	.002	.004	0.45	8.6	1.1	0	0
	Laurel Ave.	3668	499	M	Caustic Soda	4-23-62	"	0	0	0	6.0	5.42	1	10	0.36	0	46	.002	.002	0	0.04	3.8	1.0	0	0

NOTES:
(1) Geological Formation: G = Glacial (Pleistocene), J = Jameco, M = Magothy, L = Lloyd
(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/l except noted and pH value.

11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O =<2.2	Turbidity O =<1 unit	Color O =<5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O =< 0.02 mg/1	Manganese O =< 0.05 mg/1	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O =<0.001 mg/1	Nitrogen-Nitrate O =<0.01 mg/1	Chlorides	Oxygen Consumed	ABS O =<0.02 mg/1	Hexavalent Chromium O =<0.01 mg/1
Hicksville Water District	Bethpage Rd.	149	152	M	Calgon	8-1-57	R	0	1.0	0	19.0	5.91	7	60	0.04	0	150	.002	.002	.001	8.50	14.8	1.7		0
	" "	150	142	M	(Abandoned)																				
	" "	2072	159	M	Calgon	12-5-61	R	0	0	0	36.0	5.51	6	54	0	0	142	.002	.006	0	7.30	10.2	0.8	0	0
	Newbridge Rd.	148	151	M	"	1-8-62	"	0	0	0	15.0	5.65	4	56	0.10	0		.014	.020	.001	6.40	13.0	1.0		0
	" "	3552	169	M	"	1-25-62	"	0	0	0	38.0	5.59	7	68	0	0	199	.004	.014	.002	13.40	15.8	1.1	0.05	0
	Jerusalem Ave.	3488	168	M	"	1-25-62	"	0	0	0	24.0	5.73	6	68	0	0	198	.002	.010	.005	13.40	17.8	0.8	0.03	0
	Dutch La.	3553	152	M	"	1-29-62	"	0	0	0	42.0	5.49	6	62	0.13	0	180	.004	.010	.002	10.20	16.4	0.8	0	0
	Kuhl Ave.	3953	419	M	"	12-5-61	"	0	0	0	16.0	5.79	5	26	0.02	0	79	.002	.004	.002	6.00	8.0	0.5	0	0
	" "	3878	428	M	"	12-11-61	"	0	0	0	22.0	5.85	7	14	0.04	0	43	.002	.002	.001	2.40	5.2	0.5	0	0
	Newbridge Rd.	5336	523	M	"	1-31-62	"	0	0	0	13.5	5.89	5	48	0	0	156	.006	.006	.002	9.00	14.2	1.1	0.03	0
	Miller Rd.	6190	600	M	"	11-20-61	"	0	0	0	22.0	5.63	4	14	0.02	0	59	.004	.004	.002	0.76	3.8	0.3	0	0
	" "	6191	550	M	"	11-20-61	"	0	0	0	15.0	5.92	5	14	0	0	37	.006	.006	.002	0.02	3.6	0.3	0	0
	Dean St.	6192	626	M	"	11-20-61	"	0	0	0	34.0	5.70	7	12	0	0	57	.016	.016	.001	0.62	8.2	0.4	0	0
	" "	6193	460	M	"	11-20-61	"	0	0	0	28.0	5.22	2	12	0	0	88	.002	.002	.003	0.78	16.2	0.4	0	0
Island Trees Water District	Served by Levittown	Water	Distr	ict																					
Jamaica Water Supply Co.	New Hyde Park	14	106	G	Lime & Chlorine	7-17-62	P	0	0	0	14.0	6.51	24	102	0	0	296	.002	.002	0	11.20	15.8	0.6	0	0
	Hempstead Tpke. & Elmont Rd.	10	397	M	Chlorine	2-27-62	R	0	0	0	42.0	5.74	11	42	0	0	110	.006	.002	0	5.30	13.1	0.7	0	0
	" "	11	409	M	"	7-17-62	"	0	0	0	45.0	5.71	12	58	0.02	0	161	.002	.002	.002	5.40	12.2	0.6	0	0
	" "	12	422	M	"	7-17-62	P	0	0	0	55.0	5.50	9	16	0	0	68	.002	.002	.001	0.9	6.4	0.2	0	0
	" "	13	288	M	"	7-17-62	"	0	0	0	38.0	5.61	8	46	0	0	157	.002	.002	.002	0.67	12.0	0.6	0	0
	" "	693	93	G	"	2-27-62	"	0	0	0	65.0	5.72	16	100	0	0	239	.168	.008	0	10.80	21.2	0.9	0.03	0
	New Hyde Park	15	101	G	Lime & Chlorine	7-17-62	"	0	0	0	45.0	6.04	27	110	0	0	334	.002	.002	.001	13.80	20.8	0.7	0	0
	" "	1958	727	L	"	7-17-62	"	0	0	0	19.0	5.48	3	14	0	0	52	.002	.002	.001	0.03	4.6	0.6	0	
	Evergreen	17	465	M	"	8-7-62	"	0	0	0	15.0	6.00	8	44	0.02	0	125	.004	.002	0	3.8	16.6	1.0	0.06	
	Elmont Rd.	2115	85	G	"	8-7-62	"	0	0	0	70.0	5.78	22	96	0.55	0	236	.108	.024	0	3.25	13.6	1.7	0.12	
	Swale Rd.	3720	516	M	"	2-27-62	"	0	0	0	28.0	5.55	4	10	0	0	27	.002	.002	0	0.04	5.2	0.9	0	
	Franklin Ave.	4512	504	M	"	7-17-62	"	0	0	0	85.0	5.05	5	10	0.11	0	63	.002	.002	.001	0.03	4.4	0.6	0	
	Cesney, Floral Pk.	4077	90	G	"	8-7-62	R	0	0	0	50.0	5.90	21	82	0	0	195	.002	.014	.001	3.55	18.0	1.5	0	
	" "	4298	384	M	"	2-27-62	"	0	0	0	31.0	6.15	22	90	0	0	242	.002	.004	.001	7.10	16.8	0.6	0	
	Union Tpke.	4390	105	G	"	8-21-62	"	0	0	0	36.0	6.03	20	90	0	0	190	.002	.002	0	6.10	15.0	0.6	0	
	Makofshe Ave.	5155	90	G	"	8-7-62	"	0	0	0	55.0	5.70	14	70	0.02	0	179	.004	.002	0	7.7	9.2	1.3	0	
	" "	5156	331	M	"	8-7-62	"	0	0	0	30.0	5.82	9	28	0	0	94	.002	.002	0	2.0	8.8	0.9	0	
	Miriam, Pky.	2414	89	G	"	8-7-62	P	0	0	0	45.0	5.60	10	66	0.02	0	187	.170	.014	.002	7.6	13.6	1.2	0.08	

NOTES:
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(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/1 except noted and pH value.

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = < 0.02 mg/l	Manganese O = <0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Jamaica Water Supply Co. (Continued)	Miriam, Pky.	2413	508	M	Lime & Chlorine	8-7-62	P	0	0	0	19.0	5.78	6	14	0	0	51	.004	.002	0	0	4.4	0.8	0	0
	Makofshe Ave.	6744	94	G	"	8-21-62	R	0	1.3	0	30.0	5.91	12	76	0	0	237	.002	.002	.002	9.6	16.4	0.7	0	0
	" "	6745	344	M	"	8-7-62	P	0	2.5	0	23.0	5.78	7	30	0	0	90	.004	.006	0	2.5	30.8	1.1	0	0
Jericho Water District	Convent La.	198	617	M	None	12-5-61	R	0	0	0	9.5	5.82	3	8	0	0	29	.006	.004	.002	0.42	3.4	1.2	0	0
	" "	199	600	M	"	12-7-61	"	0	0	0	15.0	5.61	3	8	0.02	0	32	.002	.004	0	0.84	3.6	0.9	0	0
	" "	570	600	M	"	12-6-61	"	0	0	0	13.0	5.80	4	6	0.04	0	32	.002	.002	.002	1.5	4.4	0.5	0	0
	Wheatley Rd.	3474	512	M	"	11-30-61	"	0	0	0	15.0	6.82	8	14	0.06	0	39	.004	.002	0	1.0	5.2	0.7	0	0
	" "	3475	482	M	"	12-5-61	"	0	0	0	17.0	6.25	15	16	0.11	0	80	.002	.002	.001	2.1	7.2	0.8	0	0
	Syosset Circle	4133	450	M	"	11-30-61	"	0	0	0	38.0	6.05	17	26	0	0	84	.450	.026	.005	1.55	16.0	1.1	0	0
	Jericho Tpke.	4245	605	M	"	11-30-61	"	0	0	0	35.0	5.92	16	28	0	0	77	.002	.002	.002	2.9	10.0	0.8	0	0
	Robbins La.	4246	453	M	"	12-5-61	"	0	0	0	17.0	5.90	7	22	0.04	0	71	.002	.002	.005	5.3	8.6	0.8	0	0
	Motts Cove Rd.	5201	504	L	"	12-6-61	"	0	0	0	6.0	6.51	10	12	0.09	0	38	.002	.002	0	0.07	4.6	0.4	0	0
	Cypress Dr.	6092	631	M	"	11-30-61	"	0	0	0	11.0	5.71	3	4	0.06	0	22	.002	.002	.001	0.04	6.4	0.6	0	0
	" "	6093	606	M	"	5-16-60	"	0	0	0	12.0	6.05	6	10	0	0	24	.002	.002	0	0	5.6	1.0	0	0
	Tobie Lane	6651	610	M	"	12-5-61	"	0	0	0	23.0	6.00	13	24	0.06	0	72	.002	.002	.002	4.4	9.2	0.7	0	0
		7030	520	M	"	4-13-62	"	0	13.6	0	20.0	6.02	10	10	0.27	0	46	.002	.002	.004	0.39	4.8	0.6	0	0
Levittown Water District	Hilltop Rd.	2402	206	M	Lime, Calgon, Chlorine & Fluorine	10-5-61	R	0	0	0	26.0	5.40	3	58	0	0	158	.002	.002	0	9.0	17.4	0.7	0	0
	Azalea Rd.	2403	84	G	"	10-5-61	"	0	0	0	40.0	5.58	8	110	0.15	0	307	.006	.002	.001	15.0	22.0	1.0	0.06	0
	Bluegrass La.	2580	347	M	"	5-29-62	"	0	0	0	9.0	5.61	2	12	0	0	24	.002	.002	.002	1.05	5.2	0.9	0	0
	" "	2581	81	G	"	9-7-62	"	0	0	0	45.0	5.40	10	88	0.04	0	203	.020	.010	.001	13.8	21.8	0.6	0.04	
	Market La.	3194	256	M	"	11-16-61	"	0	0	0	5.0	5.61	1	16	0	0	50	.002	.004	.002	4.8	7.6	0.7	0	0
	" "	3618	420	M	"	7-3-62	"	0	0	0	32.0	5.29	3	8	0	0	21	.002	.002	0	0.15	3.0	0.4	0	0
	Bellows La.	3313	95	M	"	5-18-62	"	0	0	0	6.5	5.78	2	72	0	0	195	.002	.014	.005	9.6	15.2	0.8	0.13	0
	" "	3312	304	M	"	11-16-61	"	0	0	0	30.0	5.18	2	12	0.15	0	49	.002	.006	.002	3.70	7.8	0.8	0	0
	Bluegrass La.	4450	466	M	"	5-29-62	"	0	0	0	12.0	5.81	4	12	0.06	0	24	.002	.002	0	1.05	4.0	0.9	0	0
	Jerusalem	4451	399	M	"	6-5-62	"	0	0	0	24.0	5.54	4	5	0	0	26	.002	.002	.001	0.39	4.2	0.6	0	0
	Redwing La.	5301	377	M	"	6-5-62	"	0	0	0	23.0	5.35	2	16	0	0	70	.002	.002	.002	3.7	11.4	0.6	0	0
	Loring Rd.	5302	484	M	"	5-29-62	"	0	0	0	15.0	5.61	3	10	0.02	0	22	.002	.002	0	0.20	3.4	0.9	0	0
	Entry La.	5303	506	M	"	8-24-62		0	0	0		5.54	2	2	0.20	0	14	.002	.054	0	0.01	5.0	0.8	0	0
	Water La. South	5304	467	M	"	5-29-62		0	3.4	0	15.0	5.42	2	8	0.86	0	21	.002	.002	.002	0	4.4	0.8	0	0
	Market La.	7076	674	M	"	5-29-62	R	0	0	0	11.0	6.20	9	12	0.15	0	46	.006	.004	.001	0.03	3.6	0.6	0	0

NOTES:
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(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/l except noted and pH value.

11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = < 0.02 mg/l	Manganese O = < 0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Lido-Point Lookout Water District	Lido Blvd.	46	1260	L	Rapid Sand, Lime, Calgon, & Chlorine	6-22-62	R	0	9.5	0	0.9	7.05	5	28	2.88	0	47	.006	.002	.001	0.02	2.4	0.7	0	0
	" "	5227	1260	L	"	6-22-62	"	0	3.1	0	6.0	6.38	9	20	2.64	0	48	.004	.002	0	0.05	2.2	0.3	0	0
Locust Valley Water District	Buckram Rd.	115	409	L	None	8-3-60	R	0	0	0	34.0	6.00	17	34	0.18	0	80	.002	.002	.006	1.65	7.2	1.1	0	0
	" "	118	471	L	"	7-20-60	"	0	0	0	36.0	6.03	18	26	0.13	0	69	.002	.002	.005	1.65	6.2	1.0	0	0
	" "	119	572	L	"	8-3-60	"	0	0	0	28.0	6.02	15	22	0.16	0	105	.002	.002	.003	0.55	9.0	0.8	0	0
	Tenth St.	1651	465	L	"	8-20-62	"	0	0	0	10.0	6.49	14	22	0	0	31	.002	.004	.001	2.1	8.4	0.8	0	0
	Bayville Rd.	5152	355	L	"	8-20-62	"	0	0	0	9.0	6.68	21	30	0	0	53	.002	.002	.002	1.46	7.8	0.4	0	0
Long Beach City	Park Pl.	41	1135	L	Lime, Calgon, Chlorine & Fe, Mn Removal	8-24-62	R	0	30.0	0	26.0	5.71	7	30	1.86	0	153	.008	.002	0	0.06	58.0	0.3	0	0
	Magnolia Blvd.	43	1264	L	"	2-1-62	"	0	0	0	27.0	5.64	6	14	4.45	0	54	.002	.002	.001	0.07	5.6	1.2	0	0
	Laurelton Blvd.	44	1259	L	"	2-1-62	"	0	7.2	0	21.0	5.90	8	8	4.45	0	72	.002	.002	.001	0.11	8.0	1.1	0	0
	Indiana Ave.	3448	1233	L	"	3-29-60	"	0	0	0	19.0	6.02	10	10	6.00	0.10	72	.002	.002	.001	0.05	9.0	1.8	0	0
	Maple Blvd.	1927	1219	L	"	3-29-60	"	0	0	0	18.0	6.10	11	8	3.90	0	54	.002	.002	0	0.06	2.0	1.2	0	0
	Lafayette Blvd.	2597	1235	L	"	2-1-62	"	0	0	0	34.0	5.61	7	12	3.80	0	63	.008	.006	.001	0.07	7.2	1.5	0	0
	Park Pl.	3687	1245	L	"	2-1-62	P	0	0	0	3.2	6.98	15	24	0.24	0	60	.002	.002	.002	0.05	6.8	0.7	0	0
	Pacific Blvd.	5308	1220	L	"	8-24-62	R	0	13.0	0	34.0	5.88	9	12	9.00	0	28	.002	.002	0	0.04	4.8	0.7	0	0
	Magnolia Blvd.	6450	1275	L	"	8-24-62	"	0	31.0	0	32.0	5.61	7	14	2.28	0	20	.002	.002	0	0.04	6.4	0.7	0	0
Long Island Water Corp.	Roosevelt	1601	580	M	Lime, Calgon, & Chlorine	5-1-62	R	0	1.0	0	45.0	5.00	2	12	0.70	0	53	.006	.002	.002	0	4.2	1.0	0	0
	"	3722	81	M	Lime & Chlorine	3-27-62		0	0	0	4.5	7.38	51	68	0.30	0.15	121	.380	.002	.001	1.90	8.8	1.0	0.25	0
	Lakeview	1602	495	M	"	7-25-62	R	0	0	0	17.0	5.65	4	8	0.06	0	64	.002	.002	.002	0.01	4.4	0.9	0	
	"	1603	529	M	Lime, Calgon, & Chlorine	3-1-62	"	0	0	0	34.0	5.18	2	6	0.04	0	37	.002	.002	.002	0.03	4.8	0.5	0	
	Roosevelt	3832	95	M	Lime & Chlorine	8-17-62	"	0	0	0	16.0	6.88	6	8	0.06	0	193	.740	.020	.009	6.9	19.2	0.9	0.74	
		6893	560	M		3-15-62	"	0	0	0	15.0	5.16	1	4	0.30	0	23	.002	.002	0	0	3.4	0.6	0	
	Lakeview	3520	178	M	Lime & Chlorine	3-1-62	"	0	0	0	85.0	4.36	1	12	0.30	0	58	.004	.002	.001	0.02	7.2	0.6	0	
	Baldwin	2613	500	M	Lime, Calgon & Chlorine	8-17-62	"	0	0	0	20.0	6.39	12	56	0.18	0	75	.004	.006	.004	0.02	4.8	0.6	0	

NOTES:
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(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/l except noted and pH value.

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = <0.02 mg/l	Manganese O = <0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Long Island Water Corp. (Continued)	Baldwin (Common Suction)	710-714	75-200	J	Lime, Chlorine Aeration & Filtration	1-29-62	T	0	0	0		7.61	36	36	0.20	1.9	73	.006	.002	0	0.04	8.0	0.4	0	0
		1346-1361	"	"																					
		1363-1368	"	"																					
		1370	"	"																					
		1372	"	"																					
		1374	"	"																					
		1376-1378	"	"																					
		1380-1401	"	"																					
		1494	136	"																					
		1489-1493	32	G																					
		1501-1526	29-32	"																					
		1529-1576	20-33	"																					
	Beech St.	4405	1076	L	Lime, Aeration & Filtration	8-17-62	R	0	37.5	0	17.0	6.18	13	18	4.80	0	76	.004	.002	.003	0.03	11.4	0.8	0	0
	W. Val St. & Wash. St.	2578	8	G	Lime, Calgon & Chlorine	8-16-62	"	0	4.1	0	55.0	6.12	41	140	0.30	0	424	2.05	.042	.010	7.9	32.4	1.1	0.61	0
	" "	3327	442	M	"	3-1-62	"	0	0	0	38.0	5.70	8	10	0.20	0	42	.002	.002	.002	0.03	4.8	0.6	0	0
	Arlington Ave.	5145	460	M	"	3-1-62	"	0	0	0	40.0	5.72	7	18	0.27	0	49	.002	.002	.001	0.07	5.0	0.5	0	0
	Franklin Ave., Malverne	3937	465	M	Lime & Chlorine	3-1-62	"	0	0	0	43.0	5.23	3	6	0.20	0	31	.002	.004	.002	0.05	3.8	1.0	0	0
	" "	4394	175	M	Lime, Calgon & Chlorine	8-16-62	"	0	0	20	17.0	5.67	4	40	2.58	0	94	.250	.006	.001	0.08	12.6	0.4	0	0
	N. Val St. & Hendrickson Ave.	3782	408	M	Lime & Chlorine	3-1-62	"	0	0	0	17.0	5.81	5	10	0.22	0	43	.002	.002	.002	0.02	4.0	0.6	0	0
	" "	3781	430	M	"	7-25-62	"	0	0	0	5.0	7.00	26	48	0.22	0	75	.002	.002	.003	0.02	4.6	0.5	0	0
	Hawthorne Ave., Lynbrook	4393	474	M	"	7-25-62	T	0	0	0	0.15	8.78	41	42	0.11	0	80	.002	.002	0	0.02	4.4	0.6	0	0
	George St., Baldwin	4132	619	M	Lime, Calgon & Chlorine	3-27-62	"	0	0	0		9.02	49	50	0.36	0	75	.002	.002	0	0.02	5.0	1.1	0	0
	" "	5153	323	M	Lime & Chlorine	8-16-62	R	0	0	0	65.0	4.96	3	16	0.36	0	39	.004	.002	.002	0.01	6.6	0.3	0	0
	Sunrise Hwy., Lynbrook	4411	550	M	"	7-25-62	T	0	0	0	1.5	7.70	39	46	0.27	0	96	.002	.002	.001	0	4.4	0.6	0	0
	Whitehall St., Lynbrook	5121	542	M	"	8-16-62	R	0	0	0	12.0	6.25	11	24	0.11	0	42	.004	.002	.002	0.02	4.4	0.3	0	0
	Decatur St., Roosevelt	5187	495	M	Lime, Calgon & Chlorine	7-31-62	"	0	0	0	8.8	5.72	2	4	0.39	0	68	.002	.002	0	0.01	3.8	1.0	0	

NOTES:
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(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/l except noted and pH value.

11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = <0.02 mg/1	Manganese O = <0.05 mg/1	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/1	Nitrogen-Nitrate O = <0.01 mg/1	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/1	Hexavalent Chromium O = <0.01 mg/1
Long Island Water Corp. (Continued)	Tanglewood Rd., Lakeview	5656	495	M	Lime & Chlorine	3-1-62	R	0	0	0	38.0	5.01	2	4	0.13	0	31	.002	.002	0	0	3.6	0.6	0	0
	Long Beach Rd., S. Hempstead	5653	590	M	"	3-15-62	T	0	0	0	4.3	7.20	33	34	0.04	0	62	.002	.002	0	0	5.2	0.4	0	0
	Lakeview Ave., Lakeview	6146	498	M	Lime, Calgon, & Chlorine	3-27-62	"	0	0	0	2.7	7.40	33.7	38	0.09	0	60	.002	.002	0	0.05	4.6	0.8	0	0
Manhasset-Lakeville Water District	East Shore Rd. (Common Suction)	703, 704	150	M	Calgon & Chlorine	8-22-62	R	0	0	0	12.0	6.71	31	38	0	0	85	.002	.002	0	1.25	7.2	0.5	0	0
		707, 708	"	"																					
		718-720	"	"																					
		724	"	"																					
		846-848	"	"																					
		850-854	"	"																					
		862,863	"	"																					
		865-867	"	"																					
		869,870	"	"																					
	Old Power House Rd.	7126	452	M		8-1-62		0	0	0	1.5	7.55	27	30	0.04	0	87	.002	.002	.004	0.85	4.4	0.7	0	0
	Munsey Park	3523	320	M	None	8-1-62		0	0	0	6.0	7.01	31	54	0	0	137	.002	.002	.002	3.4	8.6	0.6	0	0
	East Shore Rd.	24	419	L	Calgon	1-3-62	R	0	0	0	21.0	6.65	40	50	0.15	0	79	.002	.002	.002	0.51	5.8	4.5	0	0
	Shelter Rock	1328	743	L	None	8-1-62	"	0	0	0	6.0	6.56	11	10	0	0	37	.002	.002	0	0.03	4.0	1.1	0	0
	Valley Rd.	1618	550	L	Calgon	12-12-61	"	0	0	0	36.0	5.73	9	16	0	0	32	.002	.002	0	0.01	3.8	0.8	0	0
	Lakeville Rd.	1802	691	L	"	1-3-62	"	0	0	0	31.0	6.25	24	36	0.13	0	79	.002	.002	0	1.5	9.0	0.7	0	0
	Parkway Station #1	3905	254	M	Chlorine	8-22-62	"	0	0	0	10.0	6.90	38	50	0.13	0	128	.002	.002	.001	1.9	8.6	0.6	0	0
	" " #2	4243	256	M	"	8-22-62	"	0	0	0	11.0	6.80	35	56	0	0	139	.002	.002	0	2.9	9.2	0.8	0	0
	Cumberland Rd.	5099	393	M	None	1-3-62	"	0	0	0	20.0	6.34	18	20	0.04	0	58	.004	.004	.002	0.69	5.2	0.5	0	0
	Expressway Well	5710	384	M	"	8-22-62	"	0	-	0	-	6.89	46	64	0.09	0	135	.002	.002	.004	2.0	7.8	0.5	0	0
	Searington #1	2028	485	M	Calgon & Chlorine	8-1-62	"	0	0	0	5.7	7.25	52	62	0.06	0	118	.002	.002	.003	1.12	7.8	0.5	0	0
	Searington #2	5528	490	M	Calgon	8-1-62	"	0	0	0	6.0	7.02	32	48	0	0	124	.002	.002	.001	2.1	8.2	0.5	0	
Massapequa-Merrick Plant, Utility & Industries Corp.	Jefferson St. (Common Suction)	580	40	G	Lime, Calgon & Chlorine	7-24-54	P	0	4.0	0	17.0	6.70	81	98	0.15	0.15	-	1.1	.002	.012	6.0	18.0	1.2	-	
	" "	634	40	G	"																				
	" "	2577	38	G	"																				
	" "	3186	41	G	"																				
	" "	3187	41	G	"																				
	Jefferson St.	3437	45	G	"	6-29-62	R	0	0	0	24.0	5.52	4	12	0.22	0	39	.010	.002	.001	0	4.8	0.9	0	
	John St.	3894	362	M	"	8-6-62	"	0	0	0	31.0	4.78	1	6	0.55	0	52	.002	.002	.002	0.03	5.6	1.2	0	

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11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = < 0.02 mg/l	Manganese O = < 0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Massapequa-Merrick Plant, Utility & Industries Corp. (Continued)	Newbridge Rd.	3895	354	M	Lime, Calgon & Chlorine	7-24-62	R	0	0	0	90.0	4.60	2	4	0.34	0	43	.002	.002	0	0.02	4.8	0.6	0	0
	" "	5259	312	M	"	7-24-62	"	0	0	0	220.0	4.30	3	10	0.48	0	67	.002	.002	.001	0.05	8.8	0.6	0	0
	Jerusalem Ave.	3463	299	M	"	7-24-62	"	0	0	0	18.0	5.82	1	6	0.24	0	32	.002	.002	.001	0.01	3.4	0.5	0	0
	" "	3680	328	M	"	7-24-62	"	0	0	0	21.0	6.00	11	16	0.18	0	72	.002	.002	.002	0.03	4.0	0.5	0	0
	Seamens Neck Rd.	3780	141	M	"	8-6-62	"	0	0	0	25.0	5.64	6	58	0	0	247	.104	.016	.002	9.20	19.6	0.8	0.18	0
	" "	3893	150	M	"	8-6-62	"	0	0	0	30.0	5.47	5	60	0.04	0	183	.044	.004	.002	8.10	15.6	1.0	0.09	0
	DeMott Ave.	3427	161	G	"	6-29-62	"	0	0	0	24.0	5.52	4	12	0.22	0	39	.010	.002	0	0	4.8	0.9	0	0
	" "	3564	69	M	"	6-29-62	"	0	1.0	0	90.0	5.49	14	84	0.09	0.20	224	2.5	.062	.001	9.0	19.4	2.1	1.22	0
	" "	4461	136	M	"	6-29-62	"	0	4.1	0	30.0	5.29	3	18	1.05	0	43	.006	.002	.002	0.02	8.4	1.0	0	0
	" "	5767	384	M	"	6-29-62	"	0	1.8	0	22.0	5.72	6	54	0.09	0	73	.032	.026	0	0.05	3.4	1.2	0.09	0
	Massapequa	728	37	G	"	(Not in use for years)																			
	"	729	80	G	"	5-28-62	R	0	0	0	50.0	6.00	28	56	0.80	0.5	125	3.0	.054	.013	3.05	13.4	1.8	1.52	0
	"	2603	72	G	"	5-28-62	"	0	0	0	5.9	5.80	20	70	0.13	0.6	169	5.0	.056	.005	4.08	14.6	1.9	1.22	0
	"	3886	76	G	"	5-29-62	"	0	0	0	50.0	5.76	15	68	0.13	0.25	199	3.0	.056	.004	5.80	14.4	1.8	1.56	0
	"	5848	335	M	"	5-28-62	"	0	0	0	14.0	5.76	4	14	0.48	0	31	.014	.002	.002	0.01	5.0	0.6	0	0
Massapequa Water District	Maryland & Ocean	4602	444	M	"	10-18-61		0	0	0	30.0	5.09	2	6	0.22	0	3	.002	.006	.002	0.04	4.0	0.7	0	0
	" "	4603	184	M	"	10-18-61		0	0	0	26.0	5.53	5	22	0.86	0	20	.004	.002	0	0.05	14.0	0.7	0	0
	" "	5703	459	M	"	10-18-61		0	0	0	25.0	5.51	4	8	0.20	0	17	.002	.002	.004	0.04	4.0	0.8	0	0
	Hancock St.	6442	592	M	"	10-20-61		0	5.1	0	30.0	4.70	1	10	0.78	0	31	.002	.002	0	0.04	3.4	0.5	0	0
	" "	6443	257	M	"	10-20-61		0	4.1	0	90.0	4.30	1	18	0.68	0	60	.002	.002	0	0	8.4	0.7	0	0
	New York Ave.	6866	626	M	"	10-18-61		0	0	0	12.0	5.14	1	2	0.13	0	14	.002	.002	.004	0.05	3.2	0.7	0	0
	" "	6867	492	M	"	10-21-61		0	0	0	85.0	4.88	3	16	0.42	0	32	.002	.002	0	0.02	3.4	0.5	0	0
Mineola, Village of	Elm Pl.	97	369	M	None	12-11-61	R	0	1.0	0	24.0	5.80	7	12	0.18	0	51	.002	.002	.002	1.8	4.4	0.5	0	0
	"	98	367	M	"	1-3-62	"	0	0	0	24.0	5.73	6	14	0	0	45	.002	.002	.002	1.7	6.6	0.8	0	0
	Emory Rd.	578	403	M	"	1-3-62	"	0	0	0	17.0	6.08	9	26	0.02	0	76	.002	.002	.002	4.5	9.2	0.7	0	0
	Old Country Rd.	3185	463	M	"	1-3-62	"	0	0	0	29.0	5.78	8	38	0	0	109	.002	.002	0	5.0	20.6	0.9	0	0
	Roselle St. & Betty La.	4082	461	M	"	12-11-61	"	0	0	0	34.0	5.76	8	4	0.04	0	28	.002	.002	.002	0.73	4.6	0.2	0	0
	Westbury Ave.	5596	463	M	"	12-11-61	"	0	0	0	11.0	6.00	5	16	0.20	0	55	.002	.002	0	3.1	6.8	0.7	0	0
Nassau County Park		2923	112			9-10-62	R	0	1.0	0	22.0	5.39	3	40	0.13	0	93	.002	.002	.003	4.5	8.6	0.6	0	0
		3129	129			9-10-62	"	0	0	0	45.0	5.49	7	34	0.04	0	107	.002	.002	.002	6.1	15.0	1.4	0	0
		3243	298			2-20-62	"	0	0	0	16.0	5.47	2	4	0	0	30	.002	.002	.002	0.50	4.4	0.6	0	0
		1631	43			4-20-62	"	0	6.9	0	14.0	6.13	10	28	0.73	0	66	.062	.010	.003	2.80	8.4	0.8	0	0

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11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = < 0.02 mg/l	Manganese O = < 0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O =<0.001 mg/l	Nitrogen-Nitrate O =<0.01 mg/l	Chlorides	Oxygen Consumed	ABS O =<0.02 mg/l	Hexavalent Chromium O =<0.01 mg/l
Old Westbury, Village of	Jericho Tpke. & Powells La.	152	476	M	None	1-11-62	R	0	0	0	18.0	5.95	8	10	0.04	0	24	.002	.002	.003	0.2	5.0	1.0	0	0
	Guinea Woods & Old Woodbury Rd.	105	452	M	"	1-11-62	"	0	0	0	22.0	5.81	7	10	0.04	0	40	.002	.012	.003	0.74	4.8	0.7	0	0
	Post Rd. & Wheatley Rd.	107	495	M	"	1-11-62	"	0	4.1	0	15.0	5.11	1	10	0	0	48	.032	.046	.002	0.10	10.4	2.9	0	0
Oyster Bay Water District	West Shore Rd.	735	100	G	None	11-30-61	R	0	0	0	13.0	6.29	12	18	0.02	0	55	.002	.004	.001	1.7	5.2	0.7	0	0
	" "	736	70	G	"	11-30-61	"	0	0	0	7.0	6.35	8	24	0.04	0	70	.002	.002	.001	2.55	7.6	0.7	0	0
	" "	3486	102	G	"	11-30-61	"	0	0	0	13.5	6.29	13	20	0.04	0	58	.002	.008	.002	1.45	5.4	0.8	0	0
	" "	3561	118	G	"	11-30-61	"	0	0	0	13.5	6.32	13	20	0.11	0	51	.002	.004	0	1.0	5.4	0.5	0	0
	" "	585	78	G	"	6-20-60	"	0	0	0	19.0	6.20	14	26	0.11	0	18	.002	.002	.002	2.40	7.4	1.1	0	0
	Shutter La.	4400	302	M	"	12-5-61	"	0	0	0	6.5	6.90	26	30	0.02	0	158	.002	.002	.001	0.58	5.4	0.8	0	0
Piping Rock Water Co.	Northwest	166	115	M	Chlorine	(No data available)																			
	"	167	120	M	"	" " "																			
	Southeast	613	136	M	"	" " "																			
	"	614	122	M	"	" " "																			
Plainview Water District	Manetto Hill Rd.	4095	490	M	Lime, Calgon & Chlorine	12-21-61	R	0	3.7	0	3.9	6.16	3	8	0	0	20	.002	.012	0	0.23	3.4	0.8	0	0
	" "	4096	494	M	"	12-7-61	"	0	0	0	36.0	5.32	4	8	0	0	33	.002	.002	.002	1.0	3.8	0.7	0	0
	Orchard St.	4097	463	M	"	12-7-61	"	0	0	0	0.9	6.96	4	8	0.06	0	45	.004	.002	.003	1.45	3.8	1.2	0	0
	" "	6580	596	M	"	12-7-61	"	0	0	0	3.4	6.02	2	10	0.02	0	38	.002	.002	.002	0.42	3.4	0.5	0	0
	Southern Pkwy. & John St.	6076	358	M	"	11-20-61	"	0	0	0	45.0	5.34	4	12	0	0	68	.002	.002	.002	1.84	5.4	0.4	0	0
	" "	6077	460	M	"	11-20-61	"	0	0	0	24.0	5.42	3	12	0.02	0	73	.002	.002	.004	0.34	3.2	0.6	0	0
	Winding Rd.	6956	597	M	"	10-3-61	"	0	18.0	0	20.0	5.72	5	14	0.34	0	42	.002	.002	.005	0.06	4.2	0.6	0	0
Plandome, Village of	Stony Town Rd.	28	137	G		1-17-62	R	0	0	0	33.0	6.42	23	32	0	0	87	.002	.002	.002	0.73	3.6	0.6	0	0
		29	206	G		1-17-62	"	0	0	0	22.0	6.64	44	56	0.13	0	126	.002	.002	.002	0.16	58	0.6	0	
		3540	155	G		1-17-62	"	0	0	0	45.0	6.34	47	88	0	0	194	.002	.002	0	5.3	12.2	0.8	0	
Port Washington Water District	Neulist Ave.	1715	480	L	Calgon	7-31-62	R	0	0	0	10.0	6.61	21	26	0.02	0	44	.002	.002	0	1.05	4.8	0.6	0	
	" "	1716	475	L	Calgon & HTH	7-31-62	"	0	0	0	12.0	6.58	23	28	0.06	0	74	.002	.002	.001	0.41	4.8	0.6	0	
	" "	2030	215	M	"	7-31-62	"	0	0	0	20.0	6.49	32	80	0	0	214	.004	.006	.005	4.4	14.2	0.8	0	
	Hewlett Ave.	2052	305	M	Calgon	5-25-61	"	0	0	0	14.5	6.28	15	34	0.05	0	-	.001	0	.002	4.0	8.0	-	-	
	Southport	4223	330	M	"	12-19-61	"	0	0	0	20.0	6.40	26	38	0	0	91	.004	.004	0	2.4	5.8	0.8		

NOTES:
(1) Geological Formation: G = Glacial (Pleistocene), J = Jameco, M = Magothy, L = Lloyd
(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/l except noted and pH value.

11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = < 0.02 mg/l	Manganese O = < 0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Port Washington Water District (Continued)	Bar Beach Rd.	5209	300	M	Calgon	7-31-62	R	0	0	0	12.0	6.60	25	50	0	0	125	.002	.002	.002	1.65	8.0	0.8	0	0
	Chestnut Dr.	5876	238	M	None	12-19-61	"	0	0	0	5.5	6.85	21	30	0	0	67	.002	.002	0	3.15	6.0	0.9	0	0
	Sandy Hollow Rd.	6087	92	G	Calgon & Chlorine	7-20-62	"	0	0	0	30.0	6.41	41	94	0	0	172	.002	.004	0	1.3	13.6	0.7	0.03	0
	" "	4860	90	G	"	7-20-62	"	0	0	0	26.0	6.48	42	88	0	0	155	.002	.006	0	1.5	13.8	0.6	0	0
	" "	4859	385	L	Calgon	7-20-62	"	0	1.6	0	16.0	6.87	60	48	0.96	0.20	87	.002	.002	0	0.06	6.8	0.7	0	0
Rockville Center, Village of		50	512	M	Lime	2-19-62	R	0	0	0	55.0	4.90	2	2	0.18	0	23	.002	.002	0	0.03	4.2	0.9	0	0
		52	540	M	"	2-15-62	"	0	0	0	24.0	4.95	1	2	0.45	0	22	.002	.008	.002	0.01	5.0	0.8	0	0
		72	496	M	"	2-15-62	"	0	0	0	42.0	5.35	4	6	0.13	0	25	.002	.002	0	0.04	5.2	0.8	0	0
		3745	592	M	"	2-19-62	"	0	0	0	38.0	5.05	2	4	0.02	0	22	.002	.006	.002	0	4.2	0.9	0	0
		5193	550	M	"	2-15-62	"	0	0	0	57.0	4.62	1	4	0.45	0	22	.002	.002	.001	0.04	5.4	0.8	0	0
		5194	515	M	"	2-19-62	"	0	0	0	31.0	5.13	2	4	0.32	0	25	.002	.004	0	0	3.6	0.7	0.06	0
		5195	335	M	"	2-19-62	"	0	0	0	45.0	5.01	2	4	0.02	0	26	.006	.020	0	0.01	3.4	1.0	0	0
		6817	558	M	"	2-15-62	"	0	0	0	70.0	4.78	2	4	0.20	0	25	.004	.002	.001	0.04	5.0	0.6	0	0
Roslyn Water District	Plant #1, West Shore Rd.	1870 -1877	260 -555	M	Chlorine	1-16-62	R	0	0	0	14.0	6.61	8	10	0	0	33	.002	.002	.003	1.75	4.8	0.5	0	0
	Plant #2, Locust La.	2400	439	M	"	1-4-62	"	0	0	0	5.5	6.32	6	22	0	0	44	.002	.004	.002	1.55	6.6	0.6	0	0
	Plant #3, Glen Cove Rd.	4265	485	M	"	1-4-62	"	0	0	0	7.0	6.00	4	8	0.11	0	41	.002	.002	0	0.58	5.2	0.6	0	0
	Plant #4, Dianas Trl.	4623	498	M	"	1-16-62	"	0	0	0	4.5	7.01	18	28	0	0	63	.002	.002	0	2.9	5.8	0.5	0	0
	Plant #5, Sycamore St.	5852	482	M	"	1-4-62	"	0	0	0	16.0	5.98	8	20	0.20	0	41	.002	.002	.002	1.4	5.2	0.5	0	0
	Plant #6, Partridge	7104	430	M	"	5-29-62	"	0	0	0	12.0	5.82	4	16	0.06	0	81	.002	.002	.003	0.35	4.8	1.1	0	0
Sands Point, Village of	Round Hill La.	36	214	L	Calgon & HTH	1-4-62	R	0	2.5	0	10.5	7.01	58	88	0.30	0	146	.008	.002	.074	0.61	9.2	0.9	0	0
	" "	37	140	G	"	5-15-62	"	0	0	0	22.0	6.59	46	82	0.04	0	170	.002	.010	0	2.05	11.6	0.9	0	0
	I. B. M.	4389	225	M	"	1-4-62	"	0	1.0	0	26.0	6.41	36	62	0.11	0	129	.002	.002	0	1.62	11.2	0.7	0	0
	"	7157	240	M	"	7-20-62	P	0	0	0	6.0	6.72	17	60	0	0	120	.002	.008	0	2.7	10.4	0.5	0	0

NOTES:
(1) Geological Formation: G = Glacial (Pleistocene), J = Jameco, M = Magothy, L = Lloyd
(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/l except noted and pH value.

11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = < 0.02 mg/l	Manganese O = < 0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Sea Cliff Water Co.	Glen Head	5792	295	M	None	1-30-62		0	0	0	23.0	6.12	14	40	0	0	92	.008	.026	.001	2.65	8.6	0.6	0	0
	Sea Cliff	901-905	68-84	M	"	1-30-62		0	0	0	43.0	6.02	22	60	0	0	143	.002	.050	.001	12.0	12.2	1.2	0	0
	(Common Suction)																								
	" "	906	419	L	"																				
	" "	907-909	134-293	M	"																				
	" "	1037	65		"																				
	" "	1327	126	M	"																				
	" "	1595	125	M	"																				
South Farmingdale Water District	Langdon Rd.	4043	369	M	Lime & Calgon	11-21-61	R	0	1.8	0	130.0	4.32	1	14	0.18	0	42	.002	.002	.002	0.07	4.0	0.4	0	0
	" "	4042	154	G	"	11-21-61	"	0	0	0	13.0	5.22	1	22	0.04	0	46	.018	.002	.001	2.0	6.8	0.4	0	0
	" "	5148	331	M	"	11-21-61	"	0	0	0	80.0	4.49	1	16	0	0	34	.002	.002	0	0.05	4.2	0.4	0	0
	Lourae Dr.	5147	219	M	Lime & Iron Removal	12-4-61	"	0	0	0	45.0	4.90	2	22	1.44	0	80	.002	.002	.004	0.04	21.4	1.0	0	0
	" "	6149	635	M	Lime & Calgon	12-4-61	"	0	0	0	24.0	4.96	1	6	1.02	0	34	.002	.004	.002	0.02	3.6	0.8	0	0
	Hicksville Rd.	6150	607	M	"	12-4-61	"	0	0	0	18.0	5.35	2	14	1.02	0	25	.002	.004	.001	0.04	3.8	0.6	0	0
	Linden St.	6148	561	M	"	12-4-61	"	0	0	0	34.0	4.73	1	8	0.93	0	20	.002	.002	0	0.04	4.8	0.5	0	0
Uniondale Water District	950 Hempstead Blvd.	4756	307	M	Lime & Chlorine	7-3-62	R	0	0	0	38.0	5.02	2	8	0.32	0	30	.002	.002	0	0.5	2.8	0.6	0	0
		4757	319	M		6-5-62	"	0	0	0	22.0	5.25	2	3	0.48	0	26	.006	.008	.001	0.01	3.8	1.0	0	0
		4758	441	M		5-22-62	"	0	0	0	18.0	5.65	4	6	0	0	17	.002	.016	0	0.18	3.4	1.2	0	0
		4759	356	M		5-22-62	"	0	0	0	32.0	5.10	2	14	0.39	0	30	.002	.002	0	0.01	3.8	0.6	0	0
West Hempstead-Hempstead Gardens Water District	Birch St.	75	181	M	Chlorine & Calgon	3-19-62	R	0	0	0	27.0	5.18	2	50	0.42	0	160	.080	.018	.014	5.30	15.4	0.5	0.12	0
	" "	76	193	M	"	4-20-62	"	0	22.5	0	50.0	4.58	1	12	2.10	0	48	.004	.004	.003	0.03	8.4	0.7	0	
	" "	2239	148	M	"	5-28-62	"	0	0	0	5.8	5.31	1	36	1.20	0	46	.012	.006	.001	0.30	25.8	0.6	0.04	
	" "	3704	160	M	"	4-3-62	"	0	0	0	22.0	5.31	2	40	0.32	0	109	.028	.012	.001	2.40	12.8	0.8	0.03	
	" "	4118	204	M	"	4-3-62	"	0	0	0	48.0	4.69	1	30	1.25	0	126	.024	.010	0	0.56	23.0	1.2	0	
	" "	5260	515	M	"	4-20-62	"	0	4.1	0	10.0	5.60	2	12	0.96	0	37	.002	.012	.003	0.04	4.8	1.1	0	

NOTES:
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(3) Unit: All in mg/l except noted and pH value.

11.3 ANALYSES OF PUBLIC WATER SUPPLIES (CONTINUED)

Owner	Location	Well Number N-	Well Depth in Ft.	Geological Formation (1)	Treatment	Date of Sample	Sample Condition (2)	MPN/100 ml. O = <2.2	Turbidity O = <1 unit	Color O = <5 units	Free Carbon Dioxide	pH Value	Alkalinity	Hardness	Iron O = <0.02 mg/l	Manganese O = <0.05 mg/l	Total Solids	Free Ammonia	Nitrogen-Albuminoid	Nitrogen-Nitrite O = <0.001 mg/l	Nitrogen-Nitrate O = <0.01 mg/l	Chlorides	Oxygen Consumed	ABS O = <0.02 mg/l	Hexavalent Chromium O = <0.01 mg/l
Westbury Water District	Drexel Ave.	827	240	M	None	7-29-61	R	0	0	0	33.0	5.98	15	48	<0.05	0		.002	0	.003	10.0	16.5	-		
	" "	828	350	M	"	7-20-61	"	0	0	0	13.0	6.3	13	22	<0.05	0		.001	0	.008	4.0	10.0	-		
	" "	829	243	M	"	7-20-61	"	0	0	0	18.0	5.8	5	14	<0.05	0		.002	.002	.004	3.0	11.0	-		
	" "	101	346	M	"	11-14-61	"	0	0	0	55.0	5.48	8	20	0.15	0	64	.002	.004	.006	3.7	7.8	0.6	0	0
	" "	1667	237	M	"	7-20-61	"	0	0	0	28.0	5.77	10	40	<0.05	0		.001	0	.011	10.0	16.5	-		
	Dryden St.	2236	569	M	"	11-9-61	"	0	0	0	7.5	6.25	7	32	0	0	40	.002	.004	0	0.23	3.6	0.9	0.03	0
	" "	2602	80.0	L	"	11-8-61	"	0	0	0	16.0	5.87	6	6	0.13	0	61	.002	.002	0	0.04	3.0	0.4	0	0
	Brush Hollow Rd.	5007	259	M	"	11-9-61	"	0	1.6	0	8.5	6.05	5	40	0.32	0	155	.002	.006	0	2.4	5.8	1.3	0.05	0
	Old Country Rd.	5654	335	M	"	11-9-61	"	0	0	0	65	5.50	3	38	0	0	144	.006	.012	0	3.7	20.4	0.9	0	0
	State St.	5655	255	M	"	11-14-61	"	0	0	0	18.0	5.51	3	8	0	0	31	.002	.006	.004	1.7	5.2	0.6	0	0
	" "	6819	265	M	"	11-8-61	"	0	0	0	7.5	5.72	2	6	0	0	33	.002	.002	0	1.58	4.6	0.8	0	0
Williston Park, Village of	Syracuse & Stratford	103	239	M	Aeration for Odor Control	1-11-62	R	0	0	0	1.6	7.00	8	24	0	0	60	.002	.002	.002	2.9	6.4	0.8	0	0
	"	104	376	M	"	4-6-60	"	0	0	0	7.5	6.50	10	22	0.18	.0		.002	.002	0	2.32	6.2	1.0	0	0
	William St. & Campbell Ave.	2487	338	M	"	1-11-62	"	0	0	0	16.0	6.41	22	62	0	0	151	.004	.002	.002	3.5	13.8	1.4	0	0

NOTES:
(1) Geological Formation: G = Glacial (Pleistocene), J = Jameco, M = Magothy, L = Lloyd
(2) Sample Condition: R = Raw, T = Treated, P = Partially Treated
(3) Unit: All in mg/l except noted and pH value.

REFERENCE 38

WELL IDENTIFICATION KEY FOR FOUR-MILE RADIUS MAP STAR CARTING COMPANY, GARDEN CITY PARK, NY

Map ID No.	Municipality	Well No.	Ring	Well Owner
Nassau County				
1	Albertson	1*	2-3	Albertson Water District
1	Albertson	2	2-3	Albertson Water District
2	Albertson	3*	2-3	Albertson Water District
3	Albertson	4	2-3	Albertson Water District
1	Albertson	5*	2-3	Albertson Water District
4	Carle Place	2	3-4	Carle Place Water District
5	Carle Place	3	3-4	Carle Place Water District
5	Carle Place	4	3-4	Carle Place Water District
6	Carle Place	5	3-4	Carle Place Water District
7	Elmont	15A	3-4	Jamaica Water Supply Co.
8	Elmont	15B	3-4	Jamaica Water Supply Co.
8	Elmont	15C	3-4	Jamaica Water Supply Co.
8	Elmont	15E	3-4	Jamaica Water Supply Co.
9	Elmont	28	3-4	Jamaica Water Supply Co.
9	Elmont	28A	3-4	Jamaica Water Supply Co.
10	Elmont	44*	2-3	Jamaica Water Supply Co.
10	Elmont	44A*	2-3	Jamaica Water Supply Co.
10	Elmont	44B	2-3	Jamaica Water Supply Co.
10	Elmont	44C*	2-3	Jamaica Water Supply Co.
11	Floral Park	35	1-2	Jamaica Water Supply Co.
11	Floral Park	35A*	1-2	Jamaica Water Supply Co.
12	Franklin Square	1	1-2	Franklin Sq. Water District
12	Franklin Square	2	1-2	Franklin Sq. Water District
13	Franklin Square	3	3-4	Franklin Sq. Water District
14	Franklin Square	4*	2-3	Franklin Sq. Water District
14	Franklin Square	5*	2-3	Franklin Sq. Water District
15	Franklin Square	30	3-4	Jamaica Water Supply Co.
16	Garden City	7	1-2	Inc. Village of Garden City
17	Garden City	8	1-2	Inc. Village of Garden City
18	Garden City	9	1-2	Inc. Village of Garden City
19	Garden City	10*	2-3	Inc. Village of Garden City
19	Garden City	11*	2-3	Inc. Village of Garden City
20	Garden City	12*	1-2	Inc. Village of Garden City
21	Garden City	13*	1-2	Inc. Village of Garden City
21	Garden City	14*	1-2	Inc. Village of Garden City
22	Garden City	15	2-3	Inc. Village of Garden City
22	Garden City	16	2-3	Inc. Village of Garden City
23	Garden City Park	6*	1-2	Garden City Pk. Water District
24	Garden City Park	7	1-2	Garden City Pk. Water District
25	Garden City Park	8	1-2	Garden City Pk. Water District
26	Garden City Park	9*	1/2-1	Garden City Pk. Water District
24	Garden City Park	10*	1-2	Garden City Pk. Water District
27	Garden City Park	11*	1-2	Garden City Pk. Water District
28	Hempstead, Town	N9521	3-4	Town of Hemptead Water Dept.
29	Hempstead, Village	1R*	3-4	Inc. Village of Hempstead
30	Hempstead, Village	2	3-4	Inc. Village of Hempstead
31	Hempstead, Village	3	3-4	Inc. Village of Hempstead

WELL IDENTIFICATION KEY FOR FOUR-MILE RADIUS MAP STAR CARTING COMPANY, GARDEN CITY PARK, NY

Map ID No.	Municipality	Well No.	Ring	Well Owner
32	Hempstead, Village	4	3-4	Inc. Village of Hempstead
33	Hempstead, Village	5	3-4	Inc. Village of Hempstead
34	Hempstead, Village	6*	3-4	Inc. Village of Hempstead
35	Hempstead, Village	7	3-4	Inc. Village of Hempstead
36	Hempstead, Village	8	3-4	Inc. Village of Hempstead
37	Hempstead, Village	9	3-4	Inc. Village of Hempstead
38	Lake Success	N1618	3-4	Manhasset-Lakevill Water District
39	Lake Success	N3905	2-3	Manhasset-Lakevill Water District
40	Lake Success	N4243	2-3	Manhasset-Lakevill Water District
41	Lake Success	N5099	3-4	Manhasset-Lakevill Water District
42	Lake Success	N5710	2-3	Manhasset-Lakevill Water District
43	Lakeview	CI 3-1	3-4	Long Island Water Co.
43	Lakeview	CI 3-2	3-4	Long Island Water Co.
44	Mineola	1	1-2	Mineola Water Dept.
45	Mineola	3	1-2	Mineola Water Dept.
46	Mineola	4*	1-2	Mineola Water Dept.
47	Mineola	5	2-3	Mineola Water Dept.
48	Mineola	6	2-3	Mineola Water Dept.
49	Mineola	7	1-2	Mineola Water Dept.
50	New Hyde Park	9	1-2	Jamaica Water Supply Co.
51	New Hyde Park	16A	1-2	Jamaica Water Supply Co.
52	New Hyde Park	20*	0-1/4	Jamaica Water Supply Co.
53	New Hyde Park	40*	1-2	Jamaica Water Supply Co.
53	New Hyde Park	40A*	1-2	Jamaica Water Supply Co.
54	New Hyde Park	57*	1-2	Jamaica Water Supply Co.
54	New Hyde Park	57A*	1-2	Jamaica Water Supply Co.
55	North Hills	N1044	3-4	Manhasset-Lakeville Water District
55	North Hills	N1328	3-4	Manhasset-Lakeville Water District
56	North Hills	N7126	2-3	Manhasset-Lakeville Water District
57	North Hills	N7551	2-3	Manhasset-Lakeville Water District
58	North Hills	N7552	2-3	Manhasset-Lakeville Water District
59	North Hills	N7651	2-3	Manhasset-Lakeville Water District
56	North Hills	N7892	2-3	Manhasset-Lakeville Water District
60	North Hills	N10889	2-3	Manhasset-Lakeville Water District
61	North Hills	N11509	2-3	Manhasset-Lakeville Water District
62	N. New Hyde Park	N1802	1-2	Manhasset-Lakeville Water District
63	No. Valley Stream	34	3-4	Jamaica Water Supply Co.
64	Old Westbury	2	3-4	Village of Old Westbury
65	Roslyn	N2400	3-4	Roslyn Water District
66	Roslyn	N4623	3-4	Roslyn Water District
67	Roslyn	N8010	3-4	Roslyn Water District
68	West Hempstead	1	3-4	West Hempstead Water District
68	West Hempstead	2	3-4	West Hempstead Water District
68	West Hempstead	3	3-4	West Hempstead Water District
68	West Hempstead	4	3-4	West Hempstead Water District
68	West Hempstead	5	3-4	West Hempstead Water District
68	West Hempstead	6	3-4	West Hempstead Water District
69	West Hempstead	7	2-3	West Hempstead Water District

WELL IDENTIFICATION KEY FOR FOUR-MILE RADIUS MAP STAR CARTING COMPANY, GARDEN CITY PARK, NY

Map ID No.	Municipality	Well No.	Ring	Well Owner
68	West Hempstead	8	3-4	West Hempstead Water District
68	West Hempstead	9	3-4	West Hempstead Water District
68	West Hempstead	10	3-4	West Hempstead Water District
70	Williston Park	1	2-3	Village of Williston Park
70	Williston Park	2	2-3	Village of Williston Park
71	Williston Park	3	1-2	Village of Williston Park
72	Williston Park	4*	1-2	Village of Williston Park
Queens County				
73	Queens Village	21	3-4	Jamaica Water Supply Co.
73	Queens Village	21A	3-4	Jamaica Water Supply Co.
74	Queens Village	39A	3-4	Jamaica Water Supply Co.
* Denotes wells contaminated with VOCs above NY State Limits for Potable Water				

REFERENCE 39

STAR CARTING
GARDEN CITY PARK, NEW YORK
PUBLIC DRINKING WATER SUPPLY DATA (4-MILE RADIUS)

Village	Well No./ Name	Ring[1]	Depth (Feet)	Production (GPM)	Population Served	Owner
New Hyde Park	20	0-1/4	465	1,200	5,909	Jamaica Water Supply Co.
			Subtotal 0-1/4 mi.		**5,909**	
Garden City Park	9	1/2-1	405	1,200	3,500	Garden City Pk. WD
			Subtotal 1/4-1/2 mi.		**3,500**	
Floral Park	35	1-2	150	700	5,909	Jamaica Water Supply Co.
Floral Park	35A	1-2	395	1,800	5,909	Jamaica Water Supply Co.
Franklin Square	1	1-2	498	1,000	4,000	Franklin Sq. WD
Franklin Square	2	1-2	198	1,000	4,000	Franklin Sq. WD
Garden City	7	1-2	539	1,083	2,300	Inc. Village of Garden City
Garden City	8	1-2	528	1,201	2,300	Inc. Village of Garden City
Garden City	9	1-2	470	1,097	2,300	Inc. Village of Garden City
Garden City	12	1-2	480	1,250	2,300	Inc. Village of Garden City
Garden City	13	1-2	445	1,403	2,300	Inc. Village of Garden City
Garden City	14	1-2	363	1,299	2,300	Inc. Village of Garden City
Garden City Park	6	1-2	415	1,200	3,500	Garden City Pk. WD
Garden City Park	7	1-2	405	1,200	3,500	Garden City Pk. WD
Garden City Park	8	1-2	380	1,200	3,500	Garden City Pk. WD
Garden City Park	10	1-2	480	1,200	3,500	Garden City Pk. WD
Garden City Park	11	1-2	455	1,200	3,500	Garden City Pk. WD
Mineola	1	1-2	357	764	3,500	Mineola Water Dept.
Mineola	3	1-2	407	833	3,500	Mineola Water Dept.
Mineola	4	1-2	463	833	3,500	Mineola Water Dept.
Mineola	7	1-2	505	1,042	3,500	Mineola Water Dept.
N. New Hyde Park	N1802	1-2	691	[a]	3,000	Manhasset-Lakeville WD
New Hyde Park	9	1-2	106	700	5,909	Jamaica Water Supply Co.
New Hyde Park	40	1-2	296	1,400	5,909	Jamaica Water Supply Co.
New Hyde Park	57	1-2	340	1,200	5,909	Jamaica Water Supply Co.
New Hyde Park	16A	1-2	722	1,115	5,909	Jamaica Water Supply Co.
New Hyde Park	40A	1-2	448	1,200	5,909	Jamaica Water Supply Co.
New Hyde Park	57A	1-2	440	1,200	5,909	Jamaica Water Supply Co.
Williston Park	3	1-2	338	1,000	1,875	Village of Williston Park
Williston Park	4	1-2	400	1,300	1,875	Village of Williston Park
			Subtotal 1-2 mi.		**107,323**	
Albertson	1	2-3	355	1,050	2,700	Albertson WD
Albertson	2	2-3	455	1,000	2,700	Albertson WD
Albertson	3	2-3	430	1,000	2,700	Albertson WD
Albertson	4	2-3	370	1,200	2,700	Albertson WD
Albertson	5	2-3	415	1,200	2,700	Albertson WD
Elmont	44	2-3	90	700	5,909	Jamaica Water Supply Co.
Elmont	44A	2-3	331	1,600	5,909	Jamaica Water Supply Co.
Elmont	44B	2-3	94	700	5,909	Jamaica Water Supply Co.
Elmont	44C	2-3	344	1,600	5,909	Jamaica Water Supply Co.
Franklin Square	4	2-3	491	1,400	4,000	Franklin Sq. WD
Franklin Square	5	2-3	486	1,400	4,000	Franklin Sq. WD
Garden City	10	2-3	422	1,403	2,300	Inc. Village of Garden City
Garden City	11	2-3	415	1,403	2,300	Inc. Village of Garden City
Garden City	15	2-3	545	1,382	2,300	Inc. Village of Garden City

STAR CARTING
GARDEN CITY PARK, NEW YORK
PUBLIC DRINKING WATER SUPPLY DATA (4-MILE RADIUS)

Village	Well No./ Name	Ring[1]	Depth (Feet)	Production (GPM)	Population Served	Owner
Garden City	16	2-3	575	1,361	2,300	Inc. Village of Garden City
Lake Success	N3905	2-3	254	[a]	3,000	Manhasset-Lakevill WD
Lake Success	N4243	2-3	255	[a]	3,000	Manhasset-Lakevill WD
Lake Success	N5710	2-3	385	[a]	3,000	Manhasset-Lakevill WD
Mineola	5	2-3	461	833	3,500	Mineola Water Dept.
Mineola	6	2-3	463	972	3,500	Mineola Water Dept.
North Hills	N10889	2-3	452	[a]	3,000	Manhasset-Lakeville WD
North Hills	N11509	2-3	?	[a]	3,000	Manhasset-Lakeville WD
North Hills	N7126	2-3	261	[a]	3,000	Manhasset-Lakeville WD
North Hills	N7551	2-3	465	[a]	3,000	Manhasset-Lakeville WD
North Hills	N7552	2-3	455	[a]	3,000	Manhasset-Lakeville WD
North Hills	N7651	2-3	408	[a]	3,000	Manhasset-Lakeville WD
North Hills	N7892	2-3	455	[a]	3,000	Manhasset-Lakeville WD
West Hempstead	7	2-3	510	1,083	3,200	West Hempstead WD
Williston Park	1	2-3	380	400	1,875	Village of Williston Park
Williston Park	2	2-3	376	1,300	1,875	Village of Williston Park
			Subtotal 2-3 mi.		**98,286**	
Carle Place	2	3-4	510	1,000	2,250	Carle Place WD
Carle Place	3	3-4	359	1,388	2,250	Carle Place WD
Carle Place	4	3-4	353	1,200	2,250	Carle Place WD
Carle Place	5	3-4	440	1,200	2,250	Carle Place WD
Elmont	28	3-4	87	900	5,909	Jamaica Water Supply Co.
Elmont	15A	3-4	420	1,000	5,909	Jamaica Water Supply Co.
Elmont	15B	3-4	420	1,380	5,909	Jamaica Water Supply Co.
Elmont	15C	3-4	440	1,380	5,909	Jamaica Water Supply Co.
Elmont	15E	3-4	450	1,380	5,909	Jamaica Water Supply Co.
Elmont	28A	3-4	508	900	5,909	Jamaica Water Supply Co.
Franklin Square	3	3-4	443	1,200	4,000	Franklin Sq. WD
Franklin Square	30	3-4	516	1,200	5,909	Jamaica Water Supply Co.
Hempstead, Town	7	3-4	603	1,290	376	Town of Hemptead Water Dept.
Hempstead, Village	2	3-4	420	1,200	5,556	Inc. Village of Hempstead
Hempstead, Village	3	3-4	489	1,200	5,556	Inc. Village of Hempstead
Hempstead, Village	4	3-4	416	1,000	5,556	Inc. Village of Hempstead
Hempstead, Village	5	3-4	416	1,000	5,556	Inc. Village of Hempstead
Hempstead, Village	6	3-4	407	1,000	5,556	Inc. Village of Hempstead
Hempstead, Village	7	3-4	504	1,200	5,556	Inc. Village of Hempstead
Hempstead, Village	8	3-4	449	950	5,556	Inc. Village of Hempstead
Hempstead, Village	9	3-4	515	1,300	5,556	Inc. Village of Hempstead
Hempstead, Village	1R	3-4	365	1,000	5,556	Inc. Village of Hempstead
Lake Success	N1618	3-4	550	[a]	3,000	Manhasset-Lakevill WD
Lake Success	N5099	3-4	399	[a]	3,000	Manhasset-Lakevill WD
Lakeview	veland St.	3-4	530	1,200	6,053	Long Island Water Co.
Lakeview	veland St.	3-4	178	750	6,053	Long Island Water Co.
No. Valley Stream	34	3-4	505	1,700	5,909	Jamaica Water Supply Co.
North Hills	N1044	3-4	408	[a]	3,000	Manhasset-Lakeville WD
North Hills	N1328	3-4	745	[a]	3,000	Manhasset-Lakeville WD

STAR CARTING
GARDEN CITY PARK, NEW YORK
PUBLIC DRINKING WATER SUPPLY DATA (4-MILE RADIUS)

Village	Well No./ Name	Ring[1]	Depth (Feet)	Production (GPM)	Population Served	Owner
Old Westbury	2	3-4	500	550	600	Village of Old Westbury
Queens Village	21	3-4	335	1,382	6,047	Jamaica Water Supply Co.
Queens Village	21A	3-4	346	1,200	6,047	Jamaica Water Supply Co.
Queens Village	39A	3-4	225	520	6,047	Jamaica Water Supply Co.
Roslyn	N2400	3-4	399	980	5,667	Roslyn WD
Roslyn	N4623	3-4	503	1,100	5,667	Roslyn WD
Roslyn	N8010	3-4	448	1,200	5,667	Roslyn WD
West Hempstead	1	3-4	183	736	3,200	West Hempstead WD
West Hempstead	2	3-4	193	757	3,200	West Hempstead WD
West Hempstead	3	3-4	178	1,000	3,200	West Hempstead WD
West Hempstead	4	3-4	160	1,049	3,200	West Hempstead WD
West Hempstead	5	3-4	204	1,097	3,200	West Hempstead WD
West Hempstead	6	3-4	515	861	3,200	West Hempstead WD
West Hempstead	8	3-4	601	1,319	3,200	West Hempstead WD
West Hempstead	9	3-4	605	1,382	3,200	West Hempstead WD
West Hempstead	10	3-4	593	1,382	3,200	West Hempstead WD
			Subtotal 3-4 mi.		**199,294**	
			Grand Total		**414,312**	

[a] No one well provides greater than 40% of total production.

REFERENCE 40

Reference 40
Page 1 of 7

ALBERTSON WATER DISTRICT

184 SHEPHERD LANE
ROSLYN HEIGHTS, NY 11577
TEL.: (516) 621-3610
FAX: (516) 626-8042

BOARD OF WATER COMMISSIONERS
ARTHUR G. THOMPSON
FRANK J. DEESING
COSMO LAVENZIANO

RUDOLPH HENRIKSEN
SUPERINTENDENT
GREGORY M. HENSAS
COUNSEL

FAX:

ALBERTSON WATER FAX:
(516) 626-8042

TO: JOSEPH FISCHL

FROM: CHRIS CARRO II

DATE: 12-11-95 TIME: 11:35 AM

SUBJECT:

RE: YOUR REQUEST LETTER DATED OCT. 30, 1995

☐ REPLY REQUESTED
☒ NO REPLY REQUESTED

TOTAL NUMBER OF PAGES INCLUDING THIS PAGE 7

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: Roslyn Hts. Albertson

Contact: Rudolph Henriksen

Date: 12/11/95

Source (Circle One): (Ground Water) Surface Water, Both

Standby Water Supply:

Is surface water blended with well water? NO

Surface Water Intake or Well No./Name	Well Depth	Production	Population Served
1 N3732	355	1050 GPM	
2 N3733	455	1000 GPM	
3 N4327	430	1000 GPM	13,500
4 N5947	370	1200 GPM	
5 N8558	415	1200 GPM	

ZM LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8435 NYSDOH: 10#

Reference 40
Page 3 of 7

LAB NO: 9528580

ALBERTSON WATER DISTRICT
134 SHERWOOD LN
ROSLYN HEIGHTS, NY 11577

TYPE..... POTABLE WATER
SPECIAL
ORIGIN.... WELL
WELL TYPE. RAW

DATE COLLECTED. 10/12/95
TIME COLLECTED. 1216 HRS.
DATE RECEIVED.. 10/12/95
COLLECTED BY... CC99
FED-ID..... 2902815

POINT NO:
LOCATION: WELL #1

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0
BROMOMETHANE	<0.5	5.0
CHLOROETHANE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0
METHYLENE CHLORIDE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0
CHLOROFORM	<0.5	100
1,1,1-TRICHLOROETHANE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0
TETRACHLOROETHENE	*140	5.0
1,3-DICHLOROPROPANE	<0.5	5.0
CHLORODIBROMOMETHANE	<0.5	100
CHLOROBENZENE	<0.5	5.0
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0
BROMOFORM	<0.5	100
BROMOBENZENE	<0.5	5.0
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0

PARAMETER (S)	RESULT	LIMIT
1,2,3-TRICHLOROPROPANE	<0.5	5.0
2-CHLOROTOLUENE	<0.5	5.0
4-CHLOROTOLUENE	<0.5	5.0
M-DICHLOROBENZENE	<0.5	5.0
P-DICHLOROBENZENE	<0.5	5.0
O-DICHLOROBENZENE	<0.5	5.0
1,2,4-TRICHLOROBENZENE	<0.5	70.0
HEXACHLOROBUTADIENE	<0.5	5.0
1,2,3-TRICHLOROBENZENE	<0.5	5.0
BENZENE	<0.5	5.0
TOLUENE	<0.5	5.0
ETHYLBENZENE	<0.5	5.0
1,3-XYLENE	<0.5	5.0
1,4-XYLENE	<0.5	5.0
1,2-XYLENE	<0.5	5.0
STYRENE	<0.5	5.0
ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
N-PROPYLBENZENE	<0.5	5.0
1,3,5-TRIMETHYLBENZENE	<0.5	5.0
TERT-BUTYLBENZENE	<0.5	5.0
1,2,4-TRIMETHYLBENZENE	<0.5	5.0
SEC-BUTYLBENZENE	<0.5	5.0
P-ISOPROPYLTOLUENE	<0.5	5.0
N-BUTYLBENZENE	<0.5	5.0

1. Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO:

DATE RUN..... 10/15/95
DATE REPORTED.. 10/17/95

DATE ISSUED 10/31/95

ZM

2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-9436 NYSDOH ID# 10472

ALBERTSON WATER DISTRICT
184 SHEPHERD LN
ROSLYN HEIGHTS, NY 11577

LAB NO: 9528581

TYPE..... POTABLE WATER
SPECIAL
ORIGIN..... WELL
WELL TYPE. RAW

Reference 40
Page 4 of 7

DATE COLLECTED. 10/12/95
TIME COLLECTED. 1041 HRS.
DATE RECEIVED.. 10/12/95
COLLECTED BY... CC99
FED-ID..... 2902815

POINT NO:
LOCATION: WELL #2

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0
BROMOMETHANE	<0.5	5.0
CHLOROETHANE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0
METHYLENE CHLORIDE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0
CHLOROFORM	0.5	100
1,1,1-TRICHLOROETHANE	0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0
TRICHLOROETHENE	0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0
TETRACHLOROETHENE	0.5	5.0
1,3-DICHLOROPROPANE	<0.5	5.0
CHLORODIBROMOMETHANE	<0.5	100
CHLOROBENZENE	<0.5	5.0
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0
BROMOFORM	<0.5	100
BROMOBENZENE	<0.5	5.0
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0

PARAMETER (S)	RESULT	LIMIT
1,2,3-TRICHLOROPROPANE	<0.5	5.0
2-CHLOROTOLUENE	<0.5	5.0
4-CHLOROTOLUENE	<0.5	5.0
M-DICHLOROBENZENE	<0.5	5.0
P-DICHLOROBENZENE	<0.5	5.0
O-DICHLOROBENZENE	<0.5	5.0
1,2,4-TRICHLOROBENZENE	<0.5	70.0
HEXACHLOROBUTADIENE	<0.5	5.0
1,2,3-TRICHLOROBENZENE	<0.5	5.0
BENZENE	<0.5	5.0
TOLUENE	<0.5	5.0
ETHYLBENZENE	<0.5	5.0
1,3-XYLENE	<0.5	5.0
1,4-XYLENE	<0.5	5.0
1,2-XYLENE	<0.5	5.0
STYRENE	<0.5	5.0
ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
N-PROPYLBENZENE	<0.5	5.0
1,3,5-TRIMETHYLBENZENE	<0.5	5.0
TERT-BUTYLBENZENE	<0.5	5.0
1,2,4-TRIMETHYLBENZENE	<0.5	5.0
SEC-BUTYLBENZENE	<0.5	5.0
P-ISOPROPYLTOLUENE	<0.5	5.0
N-BUTYLBENZENE	<0.5	5.0

Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

OPIES TO:

ATE RUN..... 10/15/95
ATE REPORTED.. 10/17/95

DATE ISSUED 10/20/95

ORIGINAL

LABORATORY

ZM LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9528739

ALBERTSON WATER DISTRICT
184 SHEPHERD LN
ROSLYN HEIGHTS, NY 11577

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 40
Page 5 of 7

DATE COLLECTED. 10/13/95
TIME COLLECTED. 0835 HRS.
DATE RECEIVED.. 10/13/95
COLLECTED BY... TH99
FED-ID..... 2902815

POINT NO: N4327
LOCATION: WELL #3

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0
BROMOMETHANE	<0.5	5.0
CHLOROETHANE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0
1,1-DICHLOROETHENE	2.8	5.0
METHYLENE CHLORIDE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0
CHLOROFORM	<0.5	100
1,1,1-TRICHLOROETHANE	*7.2	5.0
CARBON TETRACHLORIDE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0
TRICHLOROETHENE	*9.6	5.0
1,2-DICHLOROPROPANE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0
TETRACHLOROETHENE	*23	5.0
1,3-DICHLOROPROPANE	<0.5	5.0
CHLORODIBROMOMETHANE	<0.5	100
CHLOROBENZENE	<0.5	5.0
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0
BROMOFORM	<0.5	100
BROMOBENZENE	<0.5	5.0
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0

PARAMETER (S)	RESULT	LIMIT
1,2,3-TRICHLOROPROPANE	<0.5	5.0
2-CHLOROTOLUENE	<0.5	5.0
4-CHLOROTOLUENE	<0.5	5.0
M-DICHLOROBENZENE	<0.5	5.0
P-DICHLOROBENZENE	<0.5	5.0
O-DICHLOROBENZENE	<0.5	5.0
1,2,4-TRICHLOROBENZENE	<0.5	70.0
HEXACHLOROBUTADIENE	<0.5	5.0
1,2,3-TRICHLOROBENZENE	<0.5	5.0
BENZENE	<0.5	5.0
TOLUENE	<0.5	5.0
ETHYLBENZENE	<0.5	5.0
1,3-XYLENE	<0.5	5.0
1,4-XYLENE	<0.5	5.0
1,2-XYLENE	<0.5	5.0
STYRENE	<0.5	5.0
ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
N-PROPYLBENZENE	<0.5	5.0
1,3,5-TRIMETHYLBENZENE	<0.5	5.0
TERT-BUTYLBENZENE	<0.5	5.0
1,2,4-TRIMETHYLBENZENE	<0.5	5.0
SEC-BUTYLBENZENE	<0.5	5.0
P-ISOPROPYLTOLUENE	<0.5	5.0
N-BUTYLBENZENE	<0.5	5.0

3 - Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCED

DATE RUN..... 10/15/95
DATE REPORTED.. 10/17/95

DATE ISSUED 10/17/95

ORIGINAL

LABORATORY DIRECTOR

M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9532433

ALBERTSON WATER DISTRICT
184 SHEPHERD LN
ROSLYN HEIGHTS, NY 11577

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

DATE COLLECTED. 11/17/95
TIME COLLECTED. 0950 HRS.
DATE RECEIVED.. 11/17/95
COLLECTED BY... RP99
FED-ID..... 2902815

POINT NO: N5947
LOCATION: WELL #4

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0
BROMOMETHANE	<0.5	5.0
CHLOROETHANE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0
1,1-DICHLOROETHENE	1.8	5.0
METHYLENE CHLORIDE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0
CHLOROFORM	0.9	100
1,1,1-TRICHLOROETHANE	4.2	5.0
CARBON TETRACHLORIDE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0
TRICHLOROETHENE	1.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0
TETRACHLOROETHENE	<0.5	5.0
1,3-DICHLOROPROPANE	<0.5	5.0
CHLORODIBROMOMETHANE	<0.5	100
CHLOROBENZENE	<0.5	5.0
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0
BROMOFORM	<0.5	100
BROMOBENZENE	<0.5	5.0
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0

PARAMETER (S)	RESULT	LIMIT
1,2,3-TRICHLOROPROPANE	<0.5	5.0
2-CHLOROTOLUENE	<0.5	5.0
4-CHLOROTOLUENE	<0.5	5.0
M-DICHLOROBENZENE	<0.5	5.0
P-DICHLOROBENZENE	<0.5	5.0
O-DICHLOROBENZENE	<0.5	5.0
1,2,4-TRICHLOROBENZENE	<0.5	70.0
HEXACHLOROBUTADIENE	<0.5	5.0
1,2,3-TRICHLOROBENZENE	<0.5	5.0
BENZENE	<0.5	5.0
TOLUENE	<0.5	5.0
ETHYLBENZENE	<0.5	5.0
1,3-XYLENE	<0.5	5.0
1,4-XYLENE	<0.5	5.0
1,2-XYLENE	<0.5	5.0
STYRENE	<0.5	5.0
ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
N-PROPYLBENZENE	<0.5	5.0
1,3,5-TRIMETHYLBENZENE	<0.5	5.0
TERT-BUTYLBENZENE	<0.5	5.0
1,2,4-TRIMETHYLBENZENE	<0.5	5.0
SEC-BUTYLBENZENE	<0.5	5.0
P-ISOPROPYLTOLUENE	<0.5	5.0
N-BUTYLBENZENE	<0.5	5.0

- Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD

DATE RUN..... 11/18/95
DATE REPORTED.. 11/20/95

DATE ISSUED 11/20/95

J. M. Alaimo

ZM LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

Reference 40
Page 1 of 7

LAB NO: 9532857

ALBERTSON WATER DISTRICT
184 SHEPHERD LN
ROSLYN HEIGHTS, NY 11577

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

DATE COLLECTED. 11/22/95
TIME COLLECTED. 0910 HRS.
DATE RECEIVED.. 11/22/95
COLLECTED BY... TH99
FED-ID..... 2902815

POINT NO: N8558
LOCATION: WELL #5

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0
BROMOMETHANE	<0.5	5.0
CHLOROETHANE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0
METHYLENE CHLORIDE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0
CHLOROFORM	0.7	100
1,1,1-TRICHLOROETHANE	0.9	5.0
CARBON TETRACHLORIDE	<0.5	5.0
1,1-DICHLOROPROPENE.	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0
TRICHLOROETHENE	1.1	5.0
1,2-DICHLOROPROPANE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0
TETRACHLOROETHENE	<0.5	5.0
1,3-DICHLOROPROPANE	<0.5	5.0
CHLORODIBROMOMETHANE	<0.5	100
CHLOROBENZENE	<0.5	5.0
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0
BROMOFORM	<0.5	100
BROMOBENZENE	<0.5	5.0
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0

PARAMETER (S)	RESULT	LIMIT
1,2,3-TRICHLOROPROPANE	<0.5	5.0
2-CHLOROTOLUENE	<0.5	5.0
4-CHLOROTOLUENE	<0.5	5.0
M-DICHLOROBENZENE	<0.5	5.0
P-DICHLOROBENZENE	<0.5	5.0
O-DICHLOROBENZENE	<0.5	5.0
1,2,4-TRICHLOROBENZENE	<0.5	70.0
HEXACHLOROBUTADIENE	<0.5	5.0
1,2,3-TRICHLOROBENZENE	<0.5	5.0
BENZENE	<0.5	5.0
TOLUENE	<0.5	5.0
ETHYLBENZENE	<0.5	5.0
1,3-XYLENE	<0.5	5.0
1,4-XYLENE	<0.5	5.0
1,2-XYLENE	<0.5	5.0
STYRENE	<0.5	5.0
ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
N-PROPYLBENZENE	<0.5	5.0
1,3,5-TRIMETHYLBENZENE	<0.5	5.0
TERT-BUTYLBENZENE	<0.5	5.0
1,2,4-TRIMETHYLBENZENE	<0.5	5.0
SEC-BUTYLBENZENE	<0.5	5.0
P-ISOPROPYLTOLUENE	<0.5	5.0
N-BUTYLBENZENE	<0.5	5.0

Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

CC TO: NCHD

RUN..... 11/22/95
REPORTED.. 11/27/95

DATE ISSUED 11/28/95

REFERENCE 41

Reference H1
Page 1 of 5

BOARD OF COMMISSIONERS

CARLE PLACE WATER DISTRICT

578 MINEOLA AVENUE • P.O. BOX 345 • CARLE PLACE, NEW YORK 11514-0345
• TEL. 516-333-0540 • FAX. 516-333-4745

JOSEPH T. HELLER, Chairman
CARMEN STELLATO, Jr., Treasurer
JOSEPH CRANE, Secretary

TIMOTHY J. DOYLE, Supervisor
BARBARA HESLIN, District Clerk

DATE 10-30-95

TO: Joe Fischl

COMPANY Ebasco FAX # 201-842-7295

FROM: Tim Doyle

THIS FAX CONSISTS OF 5 PAGES INCLUDING THIS COVER SHEET.

MESSAGE:

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Reference 41
Page 2 of 5

Village/Township: Carle Place Water Dist Contact: Tim Doyle Supv. Date: 10-30-95

Source (Circle One): Ground Water, Surface Water, Both

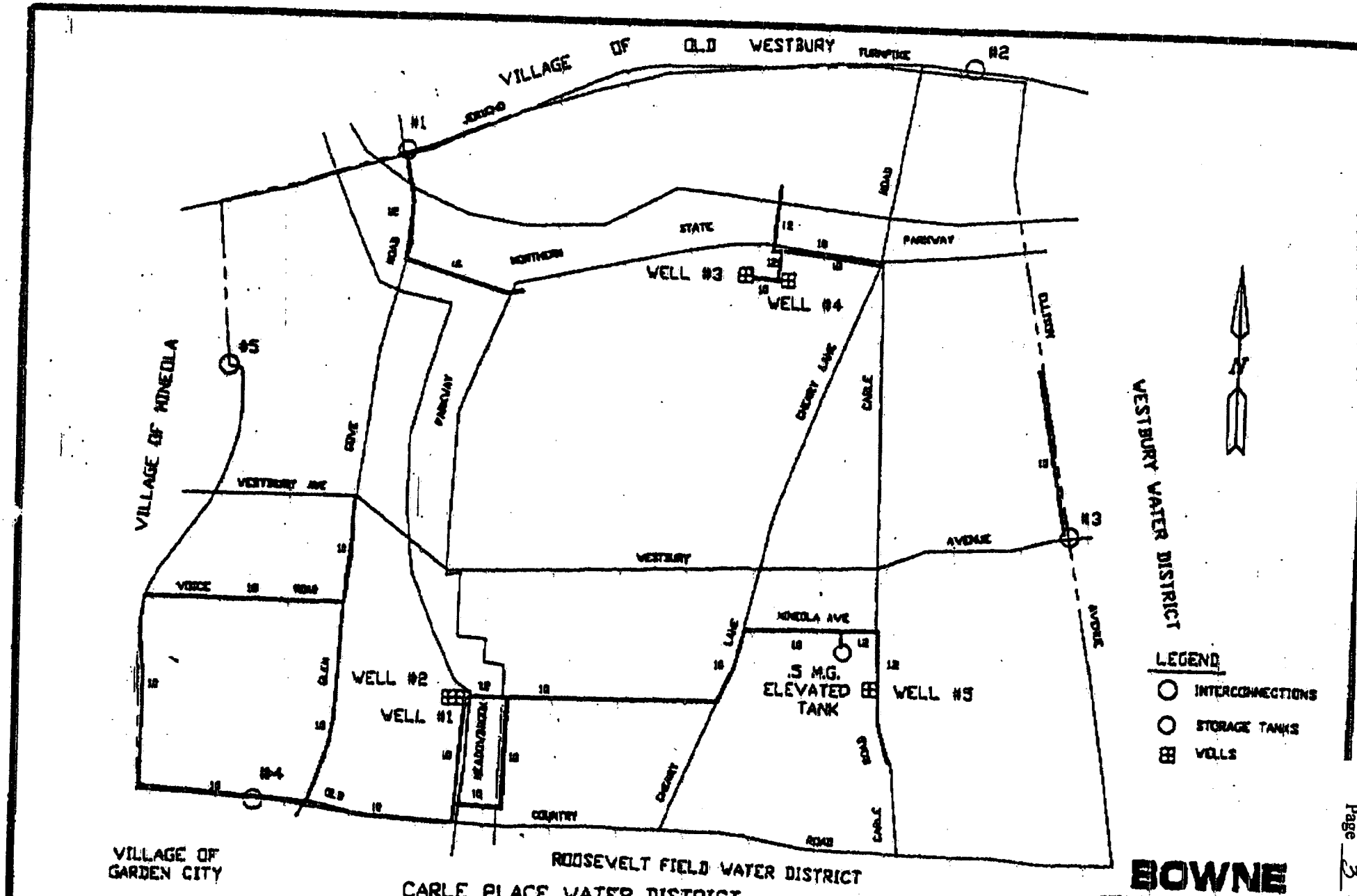
Standby Water Supply:

Is surface water blended with well water?

Surface Water Intake Well No./Name	Well Depth	Production	Population Served
Well #1 Not in used closed due to Nitrate			
N 2747	332'	800 gpm	0
Well #2	510'		
N 2748		1,000 gpm	9,000 *
Well #3	355'		
N 4206		1,288 gpm	9,000
Well #4	353'		
N 6315		1,200 gpm	9,000
Well #5	440'		
N 8457		1,200 gpm	9,000

* total population for Water District = 9,000

CH. 10/30/95



SCHEMATIC OF
WATER SUPPLY SYSTEM

Reference H1
Page H of 5

CARLE PLACE WATER DISTRICT
578 MINEOLA AVENUE
CARLE PLACE, NY 11514

TYPE..... POTABLE WATER
SPECIAL
ORIGIN.... WELL
WELL TYPE. RAW

(*) Well #1 is not in use.

DATE COLLECTED. 10/03/95
TIME COLLECTED. 0831 HRS.
DATE RECEIVED.. 10/03/95
COLLECTED BY... RP99
FED-ID..... 2902818

POINT NO:
LOCATION:

REMARKS: WELL #1

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0
BROMOMETHANE	<0.5	5.0
CHLOROETHANE	<0.5	5.0
FLUOROTRICHLOROMETHANE	*13	5.0
1,1-DICHLOROETHENE	<0.5	5.0
METHYLENE CHLORIDE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0
1,1-DICHLOROETHANE	1.4	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0
CHLOROFORM	<0.5	100
1,1,1-TRICHLOROETHANE	0.6	5.0
CARBON TETRACHLORIDE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0
TETRACHLOROETHENE	<0.5	5.0
1,3-DICHLOROPROPANE	<0.5	5.0
CHLORODIBROMOMETHANE	<0.5	100
CHLOROBENZENE	<0.5	5.0
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0
BROMOFORM	<0.5	100
BROMOBENZENE	<0.5	5.0
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0

PARAMETER (S)	RESULT	LIMIT
1,2,3-TRICHLOROPROPANE	<0.5	5.0
2-CHLOROTOLUENE	<0.5	5.0
4-CHLOROTOLUENE	<0.5	5.0
M-DICHLOROBENZENE	<0.5	5.0
P-DICHLOROBENZENE	<0.5	5.0
O-DICHLOROBENZENE	<0.5	5.0
1,2,4-TRICHLOROBENZENE	<0.5	70.0
HEXACHLOROBUTADIENE	<0.5	5.0
1,2,3-TRICHLOROBENZENE	<0.5	5.0
BENZENE	<0.5	5.0
TOLUENE	<0.5	5.0
ETHYLBENZENE	<0.5	5.0
1,3-XYLENE	<0.5	5.0
1,4-XYLENE	<0.5	5.0
1,2-XYLENE	<0.5	5.0
STYRENE	<0.5	5.0
ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
N-PROPYLBENZENE	<0.5	5.0
1,3,5-TRIMETHYLBENZENE	<0.5	5.0
TERT-BUTYLBENZENE	<0.5	5.0
1,2,4-TRIMETHYLBENZENE	<0.5	5.0
SEC-BUTYLBENZENE	<0.5	5.0
P-ISOPROPYLTOLUENE	<0.5	5.0
N-BUTYLBENZENE	<0.5	5.0

1 Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO:

DATE RUN..... 10/06/95
DATE REPORTED

DATE ISSUED 10/06/95

CARLE PLACE, NY 11514

ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

DATE COLLECTED. 07/13/95
TIME COLLECTED. 0925 HRS.
DATE RECEIVED.. 07/13/95
COLLECTED BY... JP99
FED-ID..... 2902818

POINT NO: N4206
LOCATION: WELL #3

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	0.9	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	<0.5	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

- Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD

DATE ISSUED 07/16

DATE RUN..... 07/14/95
DATE REPORTED.. 07/14/95

LABORATORY DIRECTOR

ORIGINAL

REFERENCE 42

Reference 42
Page 1 of 1

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: Franklin Sq. Contact: Lenny Falco Superintendent Date: 9/28/95

Source (Circle One): Ground Water, Surface Water, Both

Standby Water Supply: Water towers & interconnected w/ Garden City, Jamaica Water Co. & West Hempstead

Is surface water blended with well water? NO

Surface Water Intake or Well No./ Name	Well Depth (ft)	Production (gpm)	Population Served
1	498	1,000	4,000 **
2	498	1,000	4,000
3	443	1,200	4,000
4 *	491	1,400	4,000
5 *	486	1,400	4,000

* Wells tested positive for VOC's, specifically TCE

**

1 & 2 located at Schroeter & Court House Rds.
3 " at Arlington Ave West of Franklin
4 & 5 " at Theodora & Catherine

Prepared by Joseph Fischer

REFERENCE 43

Reference 43
Page 1 of 3

BOARD OF WATER COMMISSIONERS

FRANKLIN SQUARE WATER DISTRICT
P. O. BOX 177
FRANKLIN SQUARE, L. I., N.Y. 11010
(516) 354-0780
FAX (516) 775-2748

COMMISSIONERS:
LEONARD J. FALCO
ANTHONY J. RIZZO
RALPH J. ZINNO

LEONARD FALCO
SUPERINTENDENT

FAX TRANSMITTAL SHEET

DATE: SEPTEMBER 28, 1995

TIME: 1:45 A.M. ____ P.M. X

NUMBER OF PAGES (incl. cover sheet): 3

TO: JOE FISCHL

COMPANY: FOSTER, WHEELER ENVIRONMENTAL

FAX NUMBER: (201) 842 - 7291

FROM: LEONARD FALCO - SUPERINTENDENT
FRANKLIN SQUARE WATER DISTRICT

RE: SAMPLE RESULTS (WELLS #4 & #5)

COMMENTS:

JOE,

IF YOU NEED ANY MORE INFORMATION, CALL US

LENNY

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9521688

FRANKLIN SQ. WATER DISTRICT
895 SCHROETER AVENUE
FRANKLIN SQ., NY 11010

TYPE..... POTABLE WATER ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 43
Page 2 of 3

DATE COLLECTED. 08/04/95
TIME COLLECTED. 1056 HRS.
DATE RECEIVED.. 08/04/95
COLLECTED BY... AF99
FED-ID..... 2902822

POINT NO: N7117
LOCATION: WELL #4

REMARKS:

95-2360

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	*22	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	<0.5	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,~~1,2~~-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

1 - Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 08/22/9

DATE RUN..... 08/04/95
DATE REPORTED.. 08/07/95

Stanley [signature]
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9523132

FRANKLIN SQ. WATER DISTRICT
895 SCHROETER AVENUE
FRANKLIN SQ., NY 11010

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 43
Page 3 of 3

DATE COLLECTED. 08/18/95
TIME COLLECTED. 1010 HRS.
DATE RECEIVED.. 08/18/95
COLLECTED BY... CH99
FED-ID..... 2902822

POINT NO: N8818
LOCATION: WELL #5

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	*31	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	<0.5	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

1 - Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 08/25/9

DATE RUN..... 08/18/95
DATE REPORTED.. 08/21/95

J.M. Marino
LABORATORY DIRECTO

ORIGINAL

REFERENCE 44

Reference 44
Page 1 of 3

INCORPORATED VILLAGE OF GARDEN CITY
351 Stewart Avenue
Garden City, New York 11530

Telephone: (516)742-5800
Fax: (516)742-5223

FAX TRANSMITTAL COVER SHEET

DATE: 12/7/95

TIME: 16^10

TO: JOE FISCHL

NO.: 201-842-7291

FROM: FRANK KOCH

NUMBER OF PAGES INCLUDING COVER SHEET:

COMMENTS:

VILLAGE OF GARDEN CITY
WATER

EXT 224

- FRANK

Table 2-1

INC. VILLAGE OF GARDEN CITY

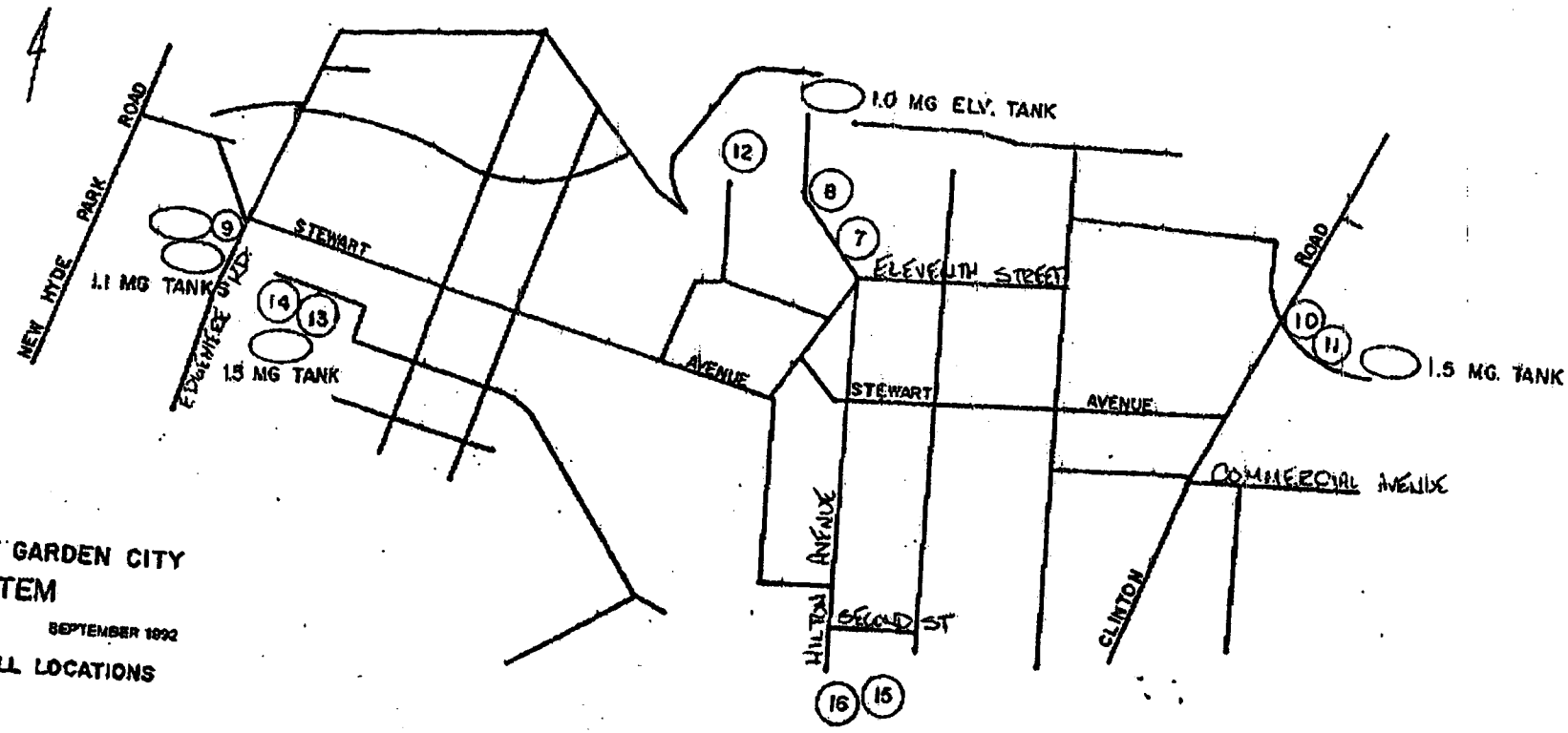
EXISTING WATER SUPPLY WELLS

VILLAGE NO.	NYSDEC NO.	LOCATION	DEPTH (FEET)	AVAILABLE CAPACITY (MGD)
7	N-95	Cherry Valley Avenue	539	1.58
8	N-1697	Garden City Golf Links	528	1.73
* 9	N-3881	Wilson St.	470	1.58
10	N-3934	Clinton Road	422	2.02
* 11	N-3935	Clinton Road	415	2.02
* 12	N-5163	Rockaway Avenue	430	1.30
* 13	N-7058	Garden City Country Club Links	445	2.02
* 14	N-8339	Garden City Country Club Links	363	1.37
* 15	N-10033	Hilton Park	545	1.99
16	N-10034	Hilton Park	575	1.96
	TOTAL AVAILABLE CAPACITY			15.55 MGD
	TOTAL STANDBY CAPACITY			11.28 MGD

* - indicates standby auxiliary drive diesel or natural gas engine and/or generator.

STRIPPING TOWER

NOTE: All wells are screened in the Magothy formation



INC. VILLAGE OF GARDEN CITY
WATER SYSTEM

SCALE: 1"= 600'

SEPTEMBER 1992

WELL LOCATIONS

REFERENCE 45

Garden City Park Water District

333 MARCUS AVENUE P.O. BOX 806 • GARDEN CITY PARK, N.Y. 11040 • 516-746-3194

Joseph Fichl
Senior Ecologist
Ebasco Services Inc.
1290 Wall Street West, Lyndhurst, NJ 07071-0661

Dear Mr. Fischl:

Enclosed is the information you requested. I hope the data provided is helpful. Should you have any questions please don't hesitate to contact me.

Very truly yours,
Garden City Park Water District

Richard Passariello

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: Garden City Park W.D. Contact: John Sweeney Dist. Super. Date: 10/17/95

Source (Circle One): (Ground Water) Surface Water, Both

Standby Water Supply: Interconnections Between Pubic Supplies

Is surface water blended with well water? No

Surface Water Intake or Well No./ Name	Well Depth	Production	Population Served
Well #6	415'	1200 GPM	21000*
Well #7	405'	1200 GPM	21000
Well #8	380'	1200 GPM	21000
Well #9	405'	1200 GPM	21000
Well #10	480'	1200 GPM	21000
Well #11	455'	1200 GPM	21000

* all six wells serve 21,000

Prepared by Richard Passariello

H2M LABS, INC. 575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9528113

GARDEN CITY PK WATER DISTRICT
333 MARCUS AVENUE
GARDEN CITY PK, NY 11040

TYPE..... POTABLE WATER
SPECIAL
ORIGIN.... WELL
WELL TYPE. RAW

DATE COLLECTED. 10/06/95
TIME COLLECTED. 1700 HRS.
DATE RECEIVED.. 10/06/95
COLLECTED BY... KZ99
FED-ID..... 2902825

POINT NO:
LOCATION: RAW

REMARKS: WELL #6

Reference 45
Page 3 of 8

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	1.8	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	1.1	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	0.6	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	3.7	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	*500	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

1 - Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 10/10/95

DATE RUN..... 10/09/95
DATE REPORTED.. 10/10/95

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9526251

GARDEN CITY PK WATER DISTRICT
833 MARCUS AVENUE
GARDEN CITY PK, NY 11040

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 45
Page 4 of 8

DATE COLLECTED. 09/20/95
TIME COLLECTED. 1032 HRS.
DATE RECEIVED.. 09/20/95
COLLECTED BY... KZ99
FED-ID..... 2902825

POINT NO: N6945
LOCATION: WELL #7

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	0.6	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	3.0	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	1.2	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	2.5	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

- Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 09/22/95

DATE RUN..... 09/21/95
DATE REPORTED.. 09/22/95

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

A LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9525346

DEN CITY PK WATER DISTRICT
3 MARCUS AVENUE
ARDEN CITY PK, NY 11040

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 45
Page 5 of 8

DATE COLLECTED. 09/12/95
TIME COLLECTED. 1049 HRS.
DATE RECEIVED.. 09/12/95
COLLECTED BY... KZ99
FED-ID..... 2902825

POINT NO: N7512
LOCATION: WELL #8

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	1.9	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	0.7	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	1.9	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

- Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 09/20/95

DATE RUN..... 09/15/95
DATE REPORTED.. 09/19/95

J M Slavin LABORATORY DIRECTOR

ORIGINAL

M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9521993

ARDEN CITY PK WATER DISTRICT
33 MARCUS AVENUE
GARDEN CITY PK, NY 11040

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 45
Page 6 of 8

DATE COLLECTED. 08/08/95
TIME COLLECTED. 1300 HRS.
DATE RECEIVED.. 08/08/95
COLLECTED BY... BT99
FED-ID..... 2902825

POINT NO: N8409
LOCATION: WELL #9

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	0.7	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	1.6	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	2.3	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	*110	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	*54	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

2 - Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 08/22/95

DATE RUN..... 08/10/95
DATE REPORTED.. 08/11/95

Stanley Isaacs
LABORATORY DIRECTOR

ORIGINAL

ZM LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9525345

GARDEN CITY PK WATER DISTRICT
333 MARCUS AVENUE
GARDEN CITY PK, NY 11040

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 45
Page 7 of 8

DATE COLLECTED. 09/12/95
TIME COLLECTED. 1119 HRS.
DATE RECEIVED.. 09/12/95
COLLECTED BY... KZ99
FED-ID..... 2902825

POINT NO: N9768
LOCATION: WELL#10

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	1.1	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	0.6	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	0.8	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

- Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 09/20/95

DATE RUN..... 09/15/95
DATE REPORTED.. 09/19/95

J M Blavin
LABORATORY DIRECTOR

ORIGINAL

A2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9527675

GARDEN CITY PK WATER DISTRICT
333 MARCUS AVENUE
GARDEN CITY PK, NY 11040

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 45
Page 8 of 8

DATE COLLECTED. 10/03/95
TIME COLLECTED. 1115 HRS.
DATE RECEIVED.. 10/03/95
COLLECTED BY... KZ99
FED-ID..... 2902825

POINT NO: N10612
LOCATION: WELL #11

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	<0.5	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

- Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 10/10/95

DATE RUN..... 10/06/95
DATE REPORTED.. 10/10/95

J M Alavian LABORATORY DIRECTOR

ORIGINAL

REFERENCE 46

RECORD OF TELEPHONE CONVERSATION

DATE: November 3, 1995

TO: Harold Mogan
Hempstead Water Department
(516) 794-8300

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
DRINKING WATER SUPPLY

Mr. Morgan indicated that there is only one Hempstead Water Department Well within the 4-mile radius TDL for Star Carting: Well No. 7 (N9521) drilled in 1979 to a depth of 603 feet with an average production of 1290 gpm (1350 gpm max) and serving 376 commercial accounts. The raw water for this well has tested clean.

cc: File

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 47

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: Inc. Village of Hempstead Contact: Joseph Simone Date: 11/13/95

Source (Circle One): Ground Water, Surface Water, Both

Standby Water Supply: 3.5 Million gallons

Is surface water blended with well water? No

Surface Water Intake or Well No./ Name	Well Depth	Production	Population Served
Well # 1R	365'	1,000 GPM	50,000
Well # 2	420'	1,200 GPM	"
Well # 3	489'	1,200 GPM	"
Well # 4	416'	1,000 GPM	"
Well # 5	416'	1,000 GPM	"
Well # 6	407'	1,000 GPM	"
Well # 7	504'	1,200 GPM	"
Well # 8	449'	950 GPM	"
Well # 9	515'	1,300 GPM	"

Prepared by: Joe Simone

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9528407

HEMPSTEAD, INC. VILLAGE OF
P.O. BOX 32 (ATTN WATER SUPT.)
HEMPSTEAD, NY 11551

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 47
Page 2 of 5

DATE COLLECTED. 10/11/95
TIME COLLECTED. 0954 HRS.
DATE RECEIVED.. 10/11/95
COLLECTED BY... HVP99
FED-ID..... 2902827

POINT NO: N4425
LOCATION: WELL #1R BEFORE - STRIPPER

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	2.6	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	*6.6	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	*32	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

2 - Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 10/13/95

DATE RUN..... 10/12/95
DATE REPORTED.. 10/12/95

ORIGINAL

J M Slavin
LABORATORY DIRECTOR

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9528408

HEMPSTEAD, INC. VILLAGE OF
P.O. BOX 32 (ATTN WATER SUPT.)
HEMPSTEAD, NY 11551

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. TREATED

DATE COLLECTED. 10/11/95
TIME COLLECTED. 1041 HRS.
DATE RECEIVED.. 10/11/95
COLLECTED BY... HVP99
FED-ID..... 2902827

POINT NO: N4425
LOCATION: WELL #1R AFTER - STRIPPER

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	<0.5	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

- Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 10/13/95

DATE RUN..... 10/12/95
DATE REPORTED.. 10/12/95

J M Slavin LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9528409

HEMPSTEAD, INC. VILLAGE OF
P.O. BOX 32 (ATTN WATER SUPT.)
HEMPSTEAD, NY 11551

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference N7
Page 4 of 5

DATE COLLECTED. 10/11/95
TIME COLLECTED. 1018 HRS.
DATE RECEIVED.. 10/11/95
COLLECTED BY... HVP99
FED-ID..... 2902827

POINT NO: ~~N160100~~ N-83
LOCATION: WELL #6 - BEFORE STRIPPER

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	*14	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	4.4	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

1 - Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 10/13/95

DATE RUN..... 10/12/95
DATE REPORTED.. 10/12/95

J M Slavin LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9528410

HEMPSTEAD, INC. VILLAGE OF
P.O. BOX 32 (ATTN WATER SUPT.)
HEMPSTEAD, NY 11551

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. TREATED

Reference 47
Page 5 of 5

DATE COLLECTED. 10/11/95
TIME COLLECTED. 1044 HRS.
DATE RECEIVED.. 10/11/95
COLLECTED BY... HVP99
FED-ID..... 2902827

POINT NO: ~~N160100~~ N-83
LOCATION: WELL #6 - AFTER STRIPPER

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT	PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0	1,2,3-TRICHLOROPROPANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0	2-CHLOROTOLUENE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0	4-CHLOROTOLUENE	<0.5	5.0
BROMOMETHANE	<0.5	5.0	M-DICHLOROBENZENE	<0.5	5.0
CHLOROETHANE	<0.5	5.0	P-DICHLOROBENZENE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0	O-DICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0	1,2,4-TRICHLOROBENZENE	<0.5	70.0
METHYLENE CHLORIDE	<0.5	5.0	HEXACHLOROBUTADIENE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0	1,2,3-TRICHLOROBENZENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0	BENZENE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0	TOLUENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0	ETHYLBENZENE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0	1,3-XYLENE	<0.5	5.0
CHLOROFORM	<0.5	100	1,4-XYLENE	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	5.0	1,2-XYLENE	<0.5	5.0
CARBON TETRACHLORIDE	<0.5	5.0	STYRENE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0	ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0	N-PROPYLBENZENE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0	1,3,5-TRIMETHYLBENZENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0	TERT-BUTYLBENZENE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0	1,2,4-TRIMETHYLBENZENE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	100	SEC-BUTYLBENZENE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	5.0	P-ISOPROPYLTOLUENE	<0.5	5.0
CIS-1,3-DICHLOROPROPENE	<0.5	5.0	N-BUTYLBENZENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0			
TETRACHLOROETHENE	<0.5	5.0			
1,3-DICHLOROPROPANE	<0.5	5.0			
CHLORODIBROMOMETHANE	<0.5	100			
CHLOROBENZENE	<0.5	5.0			
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0			
BROMOFORM	<0.5	100			
BROMOBENZENE	<0.5	5.0			
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0			

Result(s) Reported meet(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD/DMK

DATE ISSUED 10/13/95

DATE RUN..... 10/12/95
DATE REPORTED.. 10/12/95

ORIGINAL

J M Slavin
LABORATORY DIRECTOR

REFERENCE 48

410 Lakeville Road

Lake Success, New York 11042

(516) 327 4000 • (718) 298 8199

fax (516) 327 4130

Jamaica Water *Supply Company*

October 20, 1995

Mr. Joseph Fischl
Senior Ecologist
Ebasco Services Inc.
1290 Wall Street West
Lyndhurst, New Jersey 07071-0661

Subject: ARCS II Program - EPA Contract 68-W8-0110
Working Assignment No. 076-2JZZ
Star Carting Company Site
Garden City Park, New York
Ground Water Drinking Supply

Dear Mr. Fischl:

Enclosed is a marked up copy of your map, locating 29 Jamaica Water Supply Company (JWS) wells in a 4 mile radius of the reference site. Twenty-three of the wells are located in Nassau County and the remaining 6 in Queens County. I have included attachments which provide well station location, JWS well numbers, NYSDEC well numbers, well depths, well production and well status.

The 23 Nassau County wells include all but one of JWS's wells which service the Nassau County franchise area; JWS serves 130,000 people in the County. It would be difficult to determine how many people are served by the 6 Queens wells, of which only 4 are in service.

The following is a list of wells which have tested positive for volatile organic contaminants (VOC), the date of the test, the contaminant and its concentration:

Well No.	Date of Test	Contaminant (in ug/l)
20	10/95	PCE (19)
35A	9/95	TCE (9.1)
39	3/92	PCE (8.1)
40	6/90	cis-1,2-dichloroethene (5.6)
40A	9/95	PCE (5.2)
44	3/93	TCE (16)
44A	9/95	TCE (25)
44C	10/95	TCE (5.8)
57	10/95	PCE (26); TCE (220); cis-1,2 (8.2)
57A	9/95	TCE (32)

October 20, 1995

Subject: ARCS II Program - EPA Contract 68-W8-0110
Working Assignment No. 076-2JZZ
Star Carting Company Site
Garden City Park, New York
Ground Water Drinking Supply

Presently, JWS is treating all wells but Well No. 39 for VOC by packed tower aeration. Well No. 39 is out of service and is not expected to be return to service.

If you have any questions, please contact me at (516) 327-4056.

Sincerely,

William A. Yulinsky, P.E.
Project Manager

WAY/by
enclosures

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: JAMAICA WATER SUPPLY Contact: Wm. A. Yulwsky, PE Date: 10/20/95

Source (Circle One): Ground Water, Surface Water, Both

Standby Water Supply: ?

Is surface water blended with well water? YES

Surface Water Intake or Well No./ Name	Well Depth	Production	Population Served
9			
15A			
15B			
15C			
15D			NASSAU SYSTEM
15E			(minus 1 well)
16A			
20			
28			130,000 people
28A			
28B			37,000 customers
30			
34			
35			
35A			
40			
40A			
44			
44A			
44B			
44C			
57			
57A			
~~21B~~			
21			
21A			
39			
39A			Queens
49			
49A			

Prepared by Wm A Yulwsky

JAMAICA WATER SUPPLY COMPANY
STATION LOCATIONS & PHONE NUMBERS
NASSAU COUNTY

WELL STATION LOCATION (IN PINK)

JAMAICA WATER SUPPLY COMPANY STATIONS ARE UNMANNED. IN AN EMERGENCY, CONTACT JWS CONTROL CENTER AT STATION NO. 6 AT:
(718) 298-8181
(718) 298-8199

STATION NO.	WELL NO(S).	BOOSTER/ FINISH WATER PUMP NO.	TANK NO.	ADDRESS/LOCATION	VILLAGE	PHONE NO.
9	9			Bryant Ave. W/o Fifth St.	New Hyde Park	
15 @	15D	BP 15-1,2,3,4 & 5	5	Hempstead Tpke W/o Elmont Rd.	Elmont	(516) 775-3240
15A	15A			S/s Elmont Rd. S/o Atherton Ave.	Elmont	
15B @	15B			W/s Elmont Rd. S/o Belpark Ave.	Elmont	
15C & E	15C & 15E			S/W/C Elmont Rd. & Joan Ct.	Elmont	
16	16A			N/s No. 4th St. S/o Hillside Ave.	New Hyde Park	
20 **	20	FWP 20-1	10	S/s Evergreen Ave W/o Denton Ave	New Hyde Park	(516) 742-9470
25	25A			E/s Elmont Rd. N/o Oliver Ave.	Elmont	
28 @	28, 28A, 28B		20	E/s Miriam Pkway between Lenox & Stuyvesant Streets	Elmont	(516) 354-0250
30	30	BP 30-1 & 2	23	S/s Swale Rd. E/o Park Lane	Franklin Square	(516) 561-0767
34	34			W/s Franklin Ave. N/o Southern State Pkway.	No. Valley Steam	
35 ** @	35, 35A	BP 35-1, 2 & 3	24	N/s Cisney Ave. W/o Gilbert Ct.	Floral Park	(516) 775-6528
40 **	40, 40A	FWP 40-1 & 2		S/s Union Tpke. W/o New Hyde Park Rd.	New Hyde Park	(516) 775-7871
44 **	44, 44A, 44B, 44C	BP 44-1, 2 & 3	30	S/s Makofske Ave. East end of Chelsea St.	Elmont	
57 ** @	57, 57A	FWP 57-1 & 2	19	N/W/C So. Sixth St. & 2nd Ave.	New Hyde Park	(516) 328-6123

*** VOC Plant*
@ Natural-gas powered, emergency power supply

JAMAICA WATER SUPPLY COMPANY
STATION LOCATIONS & PHONE NUMBERS
QUEENS COUNTY

JAMAICA WATER SUPPLY COMPANY STATIONS ARE UNMANNED. IN AN EMERGENCY, CONTACT JWS CONTROL CENTER AT STATION NO. 6 AT:
(718) 298-8181
(718) 298-8199

STATION NO.	WELL NO(S).	BOOSTER/ FINISH WATER PUMP NO.	TANK NO.	ADDRESS/LOCATION	VILLAGE	PHONE NO.
1	1			127-16 Metropolitan Avenue	Kew Gardens	
3	3, 3A			109-25 120 St.	So. Ozone Park	
4		BP 4-1 & 2	28	118-50 128 St.	So. Ozone Park	(718) 843-6293
5 **	5, 5A	FWP 5-1 & 2	9	93-02 199 St.	Hollis	(718) 468-0324
6 +	6A, 6B, 6C 6, 6D	BP 6-1, 2 & 3	16, 17 27	N/s Brinkerhoff (110) Ave E/o 164 Pl. 108 Ave. & 166 St.	Jamaica	(718) 526-2890
7	7, 7B			91-01 209 St.	Queens Village	
8	8A			131-02 88 Ave.	Richmond Hill	
10	10, 10A			116-32 224 St.	Cambria Heights	
11	11			111-14 143 St.	Jamaica	
13	13, 13A			214-01 89 Ave.	Queens Village	
14	14			144 St. S/o 116 Ave.	So. Ozone Park	
17	17, 17A			87-75 123 St.	Richmond Hill	
18 +	18, 18A		8	84-02 164 St.	Jamaica	(718) 739-1731
19	19		3	N/s Cedarcroft Rd. E/o Homelawn Ave	Jamaica	
21	21, 21A		12	N/W/C Springfield Blvd & Sawyer Ave	Queens Village	(718) 464-4026
22	22		14	84-70 127 St	Kew Gardens	
23	23, 23A	BP 23-1, 2 & 3	18	114-36 224 St.	Cambria Heights	(718) 481-8595
24		BP 24-1, 2 & 3	6, 15, 26	106-20 180 St. (North end of 109 Ave at 176 St)	Jamaica	
26	26, 26A			113-30 Francis Lewis Blvd.	Queens	
27	27		2, 4, 21	83-83 Dunton Ave.	Hollis	(718) 465-6276
29	29, 29A	BP 29-1, 2 & 3	22	216-15 102 Ave.	Queens Village	
31 +	31 (IRP)		13	127-15 92 Ave	Richmond Hill	(718) 849-7827
32	32			126-15 111 Ave	So. Ozone Park	

STATION NO.	WELL NO(S).	BOOSTER/ FINISH WATER PUMP NO.	TANK NO.	ADDRESS/LOCATION	VILLAGE	PHONE NO.
33	33			160-25 108 Ave.	Jamaica	
36	36	BP 36-1 & 2	25	S/s 129 Ave E/o Brookville Blvd	Rosedale	(718) 525-6671
37	37			87-74 Chevy Chase St. (W/s Chevy Chase St. N/o 87 Rd.)	Jamaica Estates	
38 **	38, 38A	FWP 38-1 & 2		90-35 193 St. (N/E/C 193 St. & Jamaica Ave.)	Hollis	(718) 464-4363
39	39, 39A			90-42 Springfield Blvd. (N/W/C 91 Ave. & Springfield Blvd	Queens Village	
41	41			134-10 87 Ave. S/s 87 Ave. W/o 135 St.	Kew Gardens	
42	42, 42A			S/W/C Murdock Ave & 198 St.	St. Albans	
43	43, 43A			118 St. N/o Hillside Ave.	Richmond Hill	
45	45			E/s 120 St. S/o 101 Ave.	Richmond Hill	
46	46			193 St. S/o 120 Ave.	St. Albans	
47	47, 47A			S/s 112 Rd E/o Springfield Blvd.	Queens Village	
48 **	48, 48A	FWP 48-1 & 2		E/s Francis Lewis Blvd S/o Hollis Ave	Hollis	(718) 464-2724
49	49, 49A			E/s 219 St. S/o Hempstead Tpke	Queens Village	
50 **	50, 50A	FWP 50-1 & 2		E/s Parsons Blvd. N/o 77th Rd.	Flushing	(718) 969-0797
51	51			E/s 164th St. N/o union Tnpk.	Flushing	
52	52			W/s 161 St. N/o 72 Ave.	Flushing	
53 **	53, 53A	FWP 53-1 & 2		N/s 76th Rd. W/o 162 St.	Flushing	(718) 969-1312
54	54, 54A			N/W/C 228 St. & Linden Blvd.	Cambria Heights	
55	55			194-10 99 Ave.	Hollis	
56 @	56	BP T29-1 & 2	29	E/s 222 St. N/o 134 Rd.	Springfield Gdns.	(718) 949-5264
58 **	58	FWP 58-1		S/s South Service Road of Grand Central Pkwy W/o Avon St.	Jamaica Estates	(718) 658-2089
59	59			Springfield Blvd. N/o Lucas St.	Springfield Gdns	
60	60			231-19 128 Dr.	Springfield Gdns	
Tank 1				Audley St. W/o Abingdon Rd.	Kew Gardens	
Tank 31		BP T31-1 & 2		130 Ave. & 144 St.	So. Ozone Park	
Tank 32		BP T32-1 & 2		227 St. & 145 Ave.	Rosedale	
Tank 33		BP T33-1,2 & 3		S/W/C Guy Brewer Blvd & 132 Ave	Rochdale	
Tank 34		BP T34-1 & 2		N/E/C 144 St. & Foch Blvd	So. Ozone Park	

** *VOC Plant*
\+ *Iron Removal Plant*
@ *Natural-gas powered, emergency power supply*

G:\ENG\EMERPLAN\STATION.SAM
12/29/93- 2:51 PM

JAMAICA WATER SUPPLY COMPANY
NASSAU COUNTY SERVICE AREA WELLS

8/13 ~~2/12~~/90

WELL No. (JWS & NYSDEC) & DEPTH

WELL NO.	NYSDEC WELL NO.	LOCATION	DEPTH FT.	AQUIFER	PRESENT WELL CAPACITY M.G.D.	PRESENT NYSDEC AUTHORIZED CAPACITY M.G.D.	STATUS	REMARKS
	N14	Sta. 9 - Bryant Ave.	106	G	.929	.929	A/P	
15A	N~~11~~ 9151	Sta. 15 - Elmont Rd. &	420	M	1.400	1.584	A/P	
15B	N11037	Hempstead Tpke., Elmont	420	M	1.987	1.987	A/D	
15C	N10206		440	M	1.987	1.987	A/D	
15D	N693		93	G	2.200	2.200	~~A/P~~ I/R	
15E	N10207		450	M	1.987	1.987	A/P	
16A	N1958	New Hyde Park	722	L	1.584	1.606	A/P	
20	N17	Sta. 20 - Evergreen Ave. New Hyde Park	465	M	1.728	1.728	A/D	(2)
~~25~~	~~N2115~~	~~Sta. 25 - Elmont Rd.,~~	~~83.5~~	~~G~~	~~.900~~	~~.900~~	~~I~~	~~(1) (3)~~
25A	N7482	Elmont	435	M	2.000	2.592	A/D	
28	N2414	Sta. 28 - Miriam Pkway.	87	G	1.296	.159	A/P	
28A	~~N2415~~ 11647	Elmont	508	M	1.296	1.296	A/P	
28B	N10211		494	M	1.987	1.987	A/D	
30	N3720	Sta. 30 - Swale Rd. Franklin Square	516	M	1.728	1.728	A/D	
34	N4512	Sta. 34 - Franklin Ave. No. Valley Stream	505	M	2.448	2.448	A/P	
35	N4077	Sta. 35 - Cisney Ave.	150	G	1.008	.802	A/D	(2)
35A	N4298	Floral Park	395	M	2.592	2.592	A/D	(2)
40	N4390	Sta. 40 - Union Tpke.	296	M	2.016	2.016	A/P	(2)
40A	N7445	New Hyde Park	448	M	1.728	1.728	A/D	(2)
44	N5155	Sta. 44 - Chelsea St.	90	G	.500	.500	~~A/P~~ I/R	
44A	N5156	Elmont	331	M	2.200	2.304	I/R	(3)
44B	N6744		94	G	1.000	.150	A/P	
44C	N6745		344	M	2.200	2.304	I/R	(3)
57	N7649	Sta. 57 - Second Ave.	340	M	1.728	1.728	A/D	(2)
57A	N7650	New Hyde Park	440	M	1.728	1.728	A/P	(2)

REMARKS:
(1) To be abandoned in 1990.
(2) Pumps to VOC Removal Treatment Plant
(3) Currently exceed 5 ppb VOC MCL

LEGEND:
G = Glacial or Post Jameco Formation
M = Magothy or Cretaceous Formation
L = Lloyd Formation
A = Active
I = Inactive
D = Used Daily
P = Used to meet greater than average demands
R = Standby Emergency Reserve

Item 103 → 43

JAMAICA WATER SUPPLY COMPANY
QUEENS COUNTY SERVICE AREA WELLS

8/13/90
~~2/12/89~~

WELL # (JWS & NYSDEC) & DEPTH

WELL NO.	NYSDEC WELL NO.	LOCATION	DEPTH FT.	AQUIFER	PRESENT WELL CAPACITY M.G.D.	PRESENT NYSDEC AUTHORIZED CAPACITY M.G.D.	STATUS	REMARKS
1	Q301	127-16 Metropolitan Ave. Kew Gardens	93.7	G	.30	.432	I	(1)
3	Q303	109-25 120 Street	98.4	G	.40	.432	I/R	(2)
3A	Q558	So. Ozone Park	155	G	.30	.936	A/P	
~~4~~	~~Q304~~	~~118-50 128 Street~~	~~80~~	~~G~~	~~.29~~	~~.340~~	~~I~~	~~(1) (2) (3)~~
[illegible]	Q305	93-02 199 Street	275	M	1.728	1.728	A/D	(9)
[illegible]A	Q1957	Hollis	285	M	2.448	2.448	A/D	(9)
[illegible]	Q306	110 Ave., 108 Drive &	66.5	G	Organics	.072	I	(1)
[illegible]A	Q560	109 Dr. & 167 Street	72.5	G	1.008	1.008	I	(4)
6B	Q561	Jamaica	85	G	1.296	1.288	I	(5)
6C	Q562		602	L	2.592	2.592	I	(4)
[illegible]D	Q1839		85	G	Organics	.072	I	(1)
7	Q307	91-01 209 Street	301	M	1.783	1.728	I/R	(1)
[illegible]B	Q564		289.7	M	1.728	1.728	I/R	(1)
~~8~~	~~Q308~~	~~151-02 88 Avenue~~	~~98.9~~	~~G~~	~~Organics~~	~~.104~~	~~I~~	~~(1) (8) (5)~~
[illegible]A	Q3069	Richmond Hill	550	L	1.440	1.584	A/D	(8)
10	Q310	116-32 224 Street	105	G	1.01	.864	A/D	
10A	Q1958	Cambria Heights	432	M	2.02	2.592	A/P	
11	Q3157	111-14 143 Street Jamaica	260	J	1.987	1.987	I	(6)
[illegible]3	Q313	214-01 89 Avenue	291	M	1.811	1.728	A/D	
13A	Q1600	Queens Village	290	M	1.728	1.440	A/D	
[illegible]4	Q3156	144 Street S/o 116 Ave. Jamaica	300	J	1.728	1.728	A/P	
[illegible]7	Q317	87-75 123 Street	550	L	1.512	1.872	A/D	(8)
17A	Q566	Richmond Hill	281	M	.720	.763	A/P	(8)
[illegible]8	Q2137	84-02 164 Street	250	M	.504	.648	I/R	(1) (8)
18A	Q567	Jamaica	618	L	1.30	1.728	A/P	(8)
[illegible]9	Q319	Cedarcroft Rd. E/Homelawn	144	G	0	.144	I	(7)
[illegible]21	Q321	Sawyer Ave. & Springfield	[illegible]	M	1.703	1.987	A/P	
[illegible]21A	Q2435	Queens Village	[illegible]	M	1.60	1.728	A/P	

33.265

JAMAICA WATER SUPPLY COMPANY
QUEENS COUNTY SERVICE AREA WELLS

8/13/
~~2/12~~/90

WELL NO.	NYSDEC WELL NO.	LOCATION	DEPTH FT.	AQUIFER	PRESENT WELL CAPACITY M.G.D.	PRESENT NYSDEC AUTHORIZED CAPACITY M.G.D.	STATUS	REMARKS
22	Q322	84-70 127 Street Kew Gardens	125	G	.72	.540	I	(1)
23	Q323	114-36 224 Street	97.3	G	.30	.720	A/P	
23A	Q568	Cambria Heights	362	M	2.304	2.160	A/D	
~~24~~	~~Q324~~	~~108-20 180 Street~~	~~49~~	~~G~~	~~Organics~~	~~.072~~	~~I~~	~~(1) (3)~~
~~24A~~	~~Q569~~	~~Jamaica~~	~~60~~	~~G~~	~~Organics~~	~~.072~~	~~I~~	~~(1) (3)~~
~~24B~~	~~Q570~~		~~62~~	~~G~~	~~Organics~~	~~.072~~	~~I~~	~~(1) (3)~~
~~24C~~	~~Q1058~~		~~60~~	~~G~~	~~Organics~~	~~.072~~	~~I~~	~~(1) (3)~~
26	Q1450	113-30 Francis Lewis Blvd.	115	G	.500	.648	A/D	
26A	Q1815	St. Albans	280	M	1.73	2.304	I/R	(1)
27	Q1747	86-83 Dunton Avenue	257	G	1.071	1.476	A/D	
29	Q1534	216-15 102 Avenue	97.5	G	.072	.072	I	(1)
29A	Q1629	Queens Village	275.5	M	.923	.923	~~I/R~~ A/P/E	(1)
31	Q1811	125-15 92 Avenue Richmond Hill	144	G	.72	1.310	I	(1) (8)
32	Q1840	126-15 111 Avenue	105	G	1.296	1.440	A/P	
33	Q1843	160-25 108 Avenue Jamaica	85	G	.40	.144	A/P	
36	Q2026	129 Ave. E/o Brookville	431	M	2.304	2.304	A/D	
37	Q2001	87-74 Chevy Chase St.	207	G	1.459	.720	I/R	~~(1)~~
38	Q1997	90-35 193 Street	107.8	G	1.296	1.584	A/D	(9)
38A	Q1997	Hollis	275	M	2.304	2.592	A/D	(9)
39	Q2000	90-42 Springfield Blvd.	96	G	.720	.749	I	(1)
39A	Q2188	Queens Village	255	M	2.304	2.304	A/P	
41	Q2006	87 Avenue W/o 135 Street	115.6	G	Organics	.072	I	(1)
42	Q2027	Murdock Ave. & 198 Street	84	G	.43	.778	I	(1)
42A	Q2028	St. Albans	285	M	2.02	2.448	I/R	(5)
43	Q1997	118 Street N/o Hillside	123	G	1.18	1.368	A/D	
43A	Q2332	Richmond Hill	242	M	.58	1.872	A/D	
45	Q2189	120 Street S/o 101 Ave. Richmond Hill	158	G	1.440	1.512	A/P	
46	Q2243	193 Street S/o 120 Ave. St. Albans	132	G	0	.864	I	(5)

JAMAICA WATER SUPPLY COMPANY
QUEENS COUNTY SERVICE AREA WELLS

8/13
~~2/12~~/90

WELL NO.	NYSDEC WELL NO.	LOCATION	DEPTH FT.	AQUIFER	PRESENT WELL CAPACITY M.G.D.	PRESENT NYSDEC AUTHORIZED CAPACITY M.G.D.	STATUS	REMARKS
47	Q2275	112 Rd. E/Springfield Bl.	105	G	1.43	1.296	A/P	
47A	Q2276	Queens Village	345	M	2.304	2.304	A/D	
48	Q2299	Francis Lewis Blvd.	120	G	2.016	2.016	A/D	(9)
48A	Q2300	S/Hollis Ave., Hollis	280	M	2.304	2.304	A/D	(9)
49	Q2321	219 St. S/Hempstead Ave.	130	G	1.872	1.872	x A/P/E	(1)
49A	Q2343	Queens Village	230	M	2.304	2.304	x A/P/E	(1)
50	Q2373	Parsons Blvd. N/77 Road	158	G	1.008	1.296	A/D	(9)
50A	Q2374	Fresh Meadows (Jamaica)	254	M	1.440	1.440	A/D	(9)
[illegible]	Q2362	164 St. N/78 Ave.	287	M	1.440	1.440	I/R	(1)
[illegible]	Q2363	161 St. N/o 72 Avenue Fresh Meadows (Jamaica)	130	G	.72	.936	I/R	(1)
53	Q2408	76 Rd. W/162 Street	146	G	1.008	1.440	A/D	(9)
[illegible]A	Q2409	Fresh Meadows (Jamaica)	256	M	1.440	1.440	A/D	(9)
54	Q2442	228 St. & Linden Blvd.	102.5	G	1.728	1.728	A/P	
[illegible]A	Q2443	Cambria Heights	360	M	1.728	1.728	I/R	(5)
55	Q3034	99 Avenue & 194 Street	280	M	1.872	2.016	I	(1)
[illegible]	Q2955	222 St. N/134 Rd. Springfield Gardens	445	M	2.016	2.016	A/P	
[illegible]	Q3014	So. Service Rd. Grand Central Pkway W/Avon Rd. Jamaica	320	M	1.440	1.152	A/D	(9)
[illegible]	Q3029	Springfield Blvd. & Lucas St., Springfield Gardens	417	M	1.872	2.016	A/D	
[illegible]	Q3083	231-19 128 Drive Springfield Gardens	353	M	2.016	2.016	I	(5)

REMARKS:
(1) Currently exceeds 5 ppb VOC MCL
(2) Currently exceed 10 ppm Nitrate MCL
(3) To be abandoned in 1990.
(4) Iron Removal Plant requires upgrading
(5) High iron
(6) High chlorides and iron
(7) Water level too low
(8) Pumps to Iron Removal Treatment Plant
(9) Pumps to VOC Removal Treatment Plant

LEGEND:
G = Glacial or Post Jameco Formation
J = Jameco Formation
M = Magothy or Cretaceous Formation
L = Lloyd Formation
A = Active
I = Inactive
D = Used Daily
P = Used to meet greater than average demands
R = Standby Emergency Reserve
E = Emergency Use Only

PRODUCTION (in MGD)

JAMAICA WATER SUPPLY COMPANY
WELL OPERATIONS DURING THE MONTH OF SEPTEMBER 1995

WELL No.	CAPACITY (MGD)	STATUS	WELL No.	CAPACITY (MGD)	STATUS
1	0.300	Out - Organic	19	0.000	Out -Low Water
3	0.400	Out - Nitrates	20	1.728	IN SERVICE
3A •	0.300	Serviceable - Not Used	21 •	1.990	IN SERVICE
5 •	1.730	IN SERVICE	21A •	1.728	IN SERVICE
5A •	2.450	IN SERVICE	22	0.720	Out - Organic
6	0.000	Out - Organic	23 •	0.720	Serviceable - Not Used
6A	1.008	Out - Plant needs work	23A •	2.160	IN SERVICE
6B	0.000	Out - High Iron	25A	2.592	IN SERVICE
6C	3.000	Out - Plant needs work	26	0.648	Out for pump repair
6D	0.000	Out - Organic	26A	2.304	Out - Organic
7 •	1.999	Serviceable - Not Used	27 •	1.440	IN SERVICE
7B •	1.728	Serviceable - Not Used	28	1.296	IN SERVICE
8A •	1.440	Serviceable - Not Used	28A	1.296	Serviceable - Not Used
9	1.008	Serviceable - Not Used	28B	1.987	Out - High Iron
10 •	0.864	IN SERVICE	29	0.000	Out - Organic
10A •	2.592	IN SERVICE	29A •	0.923	Serviceable - Not Used
11	1.990	Out - High Iron	30	1.728	IN SERVICE
13 •	1.730	IN SERVICE	31	0.720	Out - Organic
13A •	1.440	Serviceable - Not Used	32 •	1.300	Serviceable - Not Used
14 •	1.730	Serviceable - Not Used	33 •	0.400	Serviceable - Not Used
15A	1.440	IN SERVICE	34	2.448	Serviceable - Not Used
15B	1.987	IN SERVICE	35	1.008	IN SERVICE
15C	1.987	IN SERVICE	35A	2.592	IN SERVICE
15D	0.456	Out - Nitrates	36 •	2.304	IN SERVICE
15E	1.987	IN SERVICE	37	1.010	Out - High Iron
16A	1.606	Serviceable - Not Used	38 •	1.584	IN SERVICE
17 •	1.230	Serviceable - Not Used	38A •	2.592	IN SERVICE
17A •	0.610	Serviceable - Not Used	Q 39	0.749	Out - Organic
18 •	0.500	Serviceable - Not Used	Q 39A •	2.304	IN SERVICE
18A •	1.300	Serviceable - Not Used	(con't)	-	-

JAMAICA WATER SUPPLY COMPANY
WELL OPERATIONS DURING THE MONTH OF SEPTEMBER 1995

WELL No.	CAPACITY (MGD)	STATUS	WELL No.	CAPACITY (MGD)	STATUS
40	2.016	Serviceable - Not Used	Q 49	1.872	~~Serviceable - Not Used~~
40A	1.728	IN SERVICE	Q 49A	2.304	Out - Nitrates
41	0.000	Out - Organic	50 •	1.010	IN SERVICE
42 •	0.778	Serviceable - Not Used	50A •	1.440	IN SERVICE
42A	2.448	Out - High Iron	51	1.440	Out - Organic
43	1.300	Out - Organic	52	0.720	Out - Organic
43A •	1.300	IN SERVICE	53 •	1.010	IN SERVICE
44	1.008	IN SERVICE	53A •	1.440	IN SERVICE
44A	2.304	IN SERVICE	54 •	1.728	IN SERVICE
44B	1.008	IN SERVICE	54A	1.728	Out - High Iron
44C	2.304	IN SERVICE	55 •	2.016	Serviceable - Not Used
45 •	1.440	IN SERVICE	56 •	2.016	IN SERVICE
46	0.864	Out - High Iron	57	1.728	IN SERVICE
47 •	1.296	Serviceable - Not Used	57A	1.728	IN SERVICE
47A •	2.304	IN SERVICE	58 •	1.220	IN SERVICE
48 •	2.016	Serviceable - Not Used	59 •	2.016	IN SERVICE
48A •	2.304	Serviceable - Not Used	60	2.016	Out - High Iron

out per electricity

REFERENCE 49

RECORD OF TELEPHONE CONVERSATION

DATE: November 13, 1995

TO: Bill Yulinsky
Jamaica Water Supply Company
(516) 327-4056

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
GROUND WATER DRINKING SUPPLY

Mr. Yulinsky stated that a "Serviceable - Not Used" status indicates wells that are used only during peak demand, typically the summer months (May through August). The "In Service" wells, indicated on Well Operations Report for September which he sent, are the wells which run year round.

Mr. Yulinsky also indicated that the total population serviced by Jamaica Water Company in Queens County is 520,000. Fifty percent of water supply comes from local wells, as listed on the Queens County Service Area Wells list he provided, and the remainder comes from surface water provided by the City of New York.

cc: File

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 50

LONG ISLAND WATER CORPORATION
733 SUNRISE HIGHWAY, LYNBROOK, NEW YORK 11563 • (516) 593-1000

October 9, 1995

Joseph Fischl, Senior Ecologist
EBASCO
1290 Wall Street West
Lyndhurst, NJ 07071-0661

Re: EPA Contract 68-W8-0110
Star Carting Company Site
Groundwater Drinking Supply

Dear Mr. Fischl:

As per your request to Mr. Iannone, we are returning the information you requested regarding wells in a four mile radius of the subject site. Neither of the two wells listed has tested positive for volatile organics compounds.

Very truly yours,

Thomas V. Whiteside, Jr.

Thomas V. Whiteside, Jr., P.E.
Vice President and
Manager - Production

TVW/mjs

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: LONG ISLAND WATER CORPORATION Contact: THOMAS WHITESIDE Date: 10-3-95

Source (Circle One): Ground Water, Surface Water, Both

Standby Water Supply: —

Is surface water blended with well water? NO

Surface Water Intake or Well No./ Name	Well Depth	Production	Population Served
CLEVELAND ST 3-1	520'	1200 GPM	230,000 *
CLEVELAND ST 3-2	178'	750 GPM	230,000 *
	* THIS IS THE POPULATION OF OUR SERVICE TERRITORY - ALL POPULATION WILL NOT RECEIVE WATER FROM THESE TWO WELLS		

Prepared by P. Whiteside

REFERENCE 51

RECORD OF TELEPHONE CONVERSATION

DATE: October 6, 1995

TO: J. Fischl

FROM: Thomas Whiteside
Manager - Production
Long Island Water Corporation
(516) 593-1000

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
DRINKING WATER SUPPLY

Mr. Whiteside indicated that there are a total of 38 wells within Long Island Water Company's territory, serving a total population of 230,000 people. No one well provides greater than 40% of total production.

cc: File

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 52

To John Bichel
Fm. Tom Casey

12/11/95

Reference 5h
Page 1 of 1

EBASCO

November 14, 1995
ARCS II-95-76-023

Mr. Thomas Casey
Henderson & Casey
344 Madison Street
Westbury, New York 11590

SUBJECT: ARCS II PROGRAM - EPA CONTRACT 68-W8-0110
WORK ASSIGNMENT NO. 076-2JZZ
STAR CARTING COMPANY SITE
GROUND WATER DRINKING SUPPLY

Dear Mr. Casey:

Enclosed please find a copy of the letter and attachments which was forwarded to you by Michael Stepans of the Manhasset-Lakeville Water District. Your prompt response, regarding the information requested in the letter, would be greatly appreciated.

Very truly yours,

Joseph Fischl

Joseph Fischl
Senior Ecologist

Enclosures
cc: E. Aguado

12/11/95

Dear Mr Fischl

Well locations, N numbers and depth for Wells within the 4 mil radius marked on the attached dwgs and returned herewith

Joe Casey

EBASCO SERVICES INCORPORATED
1290 WALL STREET WEST, LYNDHURST, NJ 07071-0661 • (201) 842-7000

REFERENCE 53

RECORD OF TELEPHONE CONVERSATION

DATE: December 21, 1995

TO: Tom Casey
Henderson and Casey, P.C.
Consulting Engineers for Manhasset-Lakeville Water District
(516) 333-3334

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
MANHASSET-LAKEVILLE WATER DISTRICT
WATER SUPPLY -POPULATION AND PRODUCTION DATA

Called Mr. Casey regarding population and production data for the Manhasset-Lakeville Water District Wells. Mr. Casey stated that the 15 wells he located on the 4-mile radius map served a population of 45,000 people. When asked if any of the 15 wells provides greater than 40% of total production, he answered no.

cc: File

Joseph Fischl

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 54

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: Inc. Village of Mineola Contact: Frederick Booher Date: 10-23-95

Source (Circle One): Ground Water, Surface Water, Both

Standby Water Supply:

Is surface water blended with well water? No

Surface Water Intake or Well No./ Name	Well Depth ~~FEET~~	Production	Population Served
Well 1 N-97	357	1.1 mgd	21,000
Well 3 N-578	407	1.2 mgd	
* Well 4 N-3185	463	1.2 mgd	
Well 5 N-4082	461	1.2 mgd	
Well 6 N-5576	463	1.4 mgd	
Well 7 N-8576	505	1.5 mgd	

* Well 4 is being air stripped for V.O.C. removal. A summary of raw water quality is attached.

FRED BOOHER
WATER DEPT. SUPERVISOR

INCORPORATED VILLAGE OF MINEOLA

167 ELM PL.
MINEOLA, N.Y.
746-0751

INC. VILLAGE OF MINEOLA WATER DEPARTMENT
ORGANIC ANALYSIS

WELL # 4 - OLD COUNTRY ROAD

1994 RAW WATER ANALYSIS

DATE	TRICHLOROETHENE	TETRACHLOROETHENE
1-14	45	15
2-01	36	11
4-20	22	13
5-06	38	14
6-30	45	13
8-24	68	13
9-8	67 (.6 trtd.)	15

note: all treated values are < 1.0 parts per billion

ALL VALUES ARE IN PARTS PER BILLION (PPB)

INC. VILLAGE OF MINEOLA WATER DEPARTMENT
ORGANIC ANALYSIS

WELL # 4 - OLD COUNTRY ROAD

1992 - 1993 ORGANIC ANALYSIS

DATE	TRICHLOROETHENE *	TETRACHLOROETHENE *
1992		
2\27	16	14
3\26	18	15
4\30	18	12
6\25	28	15
7\23	29	15
9\10	38	15
10\29	40	14
11\30	44	15
1993		
1\07	48	15
2\18	57	15
4\01	47	15
4\22	59	14
5\26	39	14
6\24	55	12
7\22	53	14
8\19	46	12
9\09	60	15
10\07	59	17
11\22	47	14

* ALL VALUES ARE IN MICROGRAMS PER LITER (UG\L)

REFERENCE 55

RECORD OF TELEPHONE CONVERSATION

DATE: December 18, 1995

TO: John Ingram
Superintendent
Old Westbury Department of Public Works

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
WATER SUPPLY

Mr. Ingram stated that there is only one Old Westbury water supply well (Well No. 2) within the four-mile radius of Star Carting Site. It is located on the west side of Glen Cove Road between US 495 and Bacon Road. Its depth is 500 feet and its production is 550 gpm. There are five wells in the Old Westbury system, serving a total of 3,000 people. No one well provides more than 40% of total production.

cc: File

Joseph Fischl

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 56

ROSLYN WATER DISTRICT

A. Jack Russo, Chairman
William A. Trottier, Treasurer
Michael J. Kosinski, Secretary

Carmine Cipriano, Business Manager

24 WEST SHORE ROAD
ROSLYN, NEW YORK 11576-1448
(516) 621-7770
Fax (516) 621-9630

October 19, 1995

Mr. Joseph Fischl
Ebasco Services Incorporated
1290 Wall Street West
Lyndhurst, N.J. 07071-0661

Dear Mr. Fischl:

In reply to your request of October 6, 1995, I am enclosing the following:

1) Maps showing plant location in red.

2) Completed USEPA Site Inspection Prioritization.

3) Copy of Analytical Results of Source Samples for 1994.

If additional information is needed, please contact me.

Very truly yours,
Roslyn Water District

Carmine Cipriano

Carmine Cipriano
Business Manager

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: ROSLYN WATER DIST Contact: C. CIPRIANO Date:

Source (Circle One): (Ground Water), Surface Water, Both

Standby Water Supply: NONE

Is surface water blended with well water? NO

Surface Water Intake or Well No./ Name	Well Depth	Production	Population Served
N 2400	399 FT.	980 G.P.M	17,000 *
N 4623	503 FT	1200 G.P.M	*
N 8010	448 FT	1200 G.P.M	*

* Total population served by Water District 8 wells within WD of which only 6 are in service.

Prepared by C Cipriano

ROSLYN WATER DISTRICT
ANALYTICAL RESULTS OF SOURCE SAMPLES - 1994

		ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 1870-1877 WEST SHORE ROAD HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 2400 LOCUST LANE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 2255 GLEN COVE ROAD HIGH VALUE	LOW VALUE	MEAN VALUE
PHY.1	PHYSICAL														
	TURBIDITY	5	unit	4	1.8	0.1	0.68	1	0.38	0.38	0.38	1	1	1	1
	COLOR	15	unit	4	<5	<5	0	1	<5	<5	0	1	<5	<5	0
	ODOR	3	unit	4	0	0	0	1	0	0	0	1	0	0	0
	TEMPERATURE	-													
IOC.1	INORGANIC														
	ARSENIC	0.05	mg/l	1	<0.002	<0.002	0	1	<0.002	<0.002	0	1	<0.002	<0.002	0
	BARIUM	2.0	mg/l	1	<0.004	<0.004	0	1	<0.004	<0.004	0	1	<0.004	<0.004	0
	CADMIUM	0.005	mg/l	1	<1.001	<1.001	0	1	<0.001	<0.001	0	1	<0.001	<0.001	0
	CHROMIUM	0.10	mg/l	1	<0.02	<0.02	0	1	<0.02	<0.02	0	1	<0.02	<0.02	0
	FLUORIDE	2.2	mg/l	1	<0.01	<0.01	0	1	<0.01	<0.01	0	1	<0.01	<0.01	0
	LEAD	0.015	mg/l	1	0.013	0.013	0.013	1	0.001	0.001	0.001	1	0.001	0.001	0.001
	MERCURY	0.002	mg/l	1	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0
	SELENIUM	0.01	mg/l	1	<0.005	<0.005	0	1	<0.005	<0.005	0	1	<0.005	<0.005	0
	SILVER	0.05	mg/l	1	<0.005	<0.005	0	1	<0.005	<0.005	0	1	<0.005	<0.005	0
IOC.2	INORGANIC														
	AMMONIA	-	mg/l	1	<0.01	<0.01	0	1	<0.01	<0.01	0	1	<0.01	<0.01	0
	CHLORIDE	250.0	mg/l	1	7.78	7.78	0	1	6.52	6.52	6.52	1	2.95	2.95	2.95
	COPPER	1.3	mg/l	1	<0.02	<0.02	0	1	0.15	0.15	0.15	1	0.2	0.2	0.2
	FORMING AGENTS	-		1	<0.05	<0.05	0	1	<0.05	<0.05	0	1	<0.02	<0.02	0
	IRON	0.3	mg/l	1	0.28	0.28	0	1	<0.025	<0.025	0	1	0.09	0.09	0.09
	MANGANESE	0.3	mg/l	1	<0.02	<0.02	0	1	<0.02	<0.02	0	1	<0.02	<0.02	0
	NITRATE	10.0	mg/l	1	2.67	2.67	0	1	3.59	3.59	3.59	1	0.14	0.14	0.14
	NITRITES	1.0	mg/l	1	<0.01	<0.01	0	1	<0.01	<0.01	0	1	<0.01	<0.01	0
	SODIUM	-	mg/l	1	4.9	4.9	0	1	4.63	4.63	4.63	1	2.47	2.47	2.47
	SULFATE	250.0	mg/l	1	0.99	0.99	0	1	0.58	0.58	0.58	1	0.66	0.66	0.66
	ZINC	5.0	mg/l	1	<0.01	<0.01	0	1	0.03	0.03	0.03	1	<0.01	<0.01	0
IOC.3	INORGANIC														
	ANTIMONY	0.006	mg/l	1	<0.003	<0.003	0	1	<00.003	<00.003	0	1	<00.003	<00.003	0
	BERYLLIUM	0.004	mg/l	1	<0.004	<0.004	0	1	<0.002	<0.002	0	1	<0.002	<0.002	0
	NICKEL	0.1	mg/l	1	<0.06	<0.06	0	1	<0.06	<0.06	0	1	<0.06	<0.06	0
	THALLIUM	0.002	mg/l	1	<0.002	<0.002	0	1	<0.002	<0.002	0	1	<0.002	<0.002	0
	CYANIDE,FREE	0.2	mg/l	1	<0.04	<0.04	0	1	<0.04	<0.04	0	1	<0.04	<0.04	0

		ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 1870-1877 WEST SHORE ROAD HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 2480 LOCUST LANE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 4265 GLEN COVE ROAD HIGH VALUE	LOW VALUE	MEAN VALUE
COR.1	CORROSIVITY														
	CALCIUM HARDNESS	-	mg/l	1	6.6	6.6	6.6	1	8.8	8.8	8.8	1	2.2	2.2	2.2
	LANGLIER SATURATION INDEX	-		1	-4	-4	-4	1	-3.914	-3.914	-3.914	1	-4.7	-4.7	-4.7
	PH	7.5 - 8.5	mg/l	1	6.2	6.2	6.2	1	6.1	6.1	6.1	1	6	6	6
	TOTAL ALKALINITY	-	mg/l	1	6	6	6	1	6.2	6.2	6.2	1	5.2	5.2	5.2
	TOTAL DISSOLVED SOLIDS	-	mg/l	1	68	68	68	1	59	59	59	1	55	55	55
	TOTAL HARDNESS	-	mg/l	1	14	14	14	1	19	19	19	1	3.6	3.6	3.6
SOC.1	PESTICIDES AND SOCs														
	ALACHLOR	0.002	mg/L	NR				1	(0.00038	(0.00038	0	1	(0.00038	(0.00038	0
	ALDICARB	0.003	mg/L	NR				1	(0.0013	(0.0013	0	1	(0.0013	(0.0013	0
	ALDICARB SULFOXIDE	0.004	mg/L	NR				1	(0.0008	(0.0008	0	1	(0.0008	(0.0008	0
	ALDICARB SULFONE	0.002	mg/L	NR				1	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0
	ATRAZINE	0.003	mg/L	NR				1	(0.00013	(0.00013	0	1	(0.00013	(0.00013	0
	CARBOFURAN	0.04	mg/L	NR				1	(0.0009	(0.0009	0	1	(0.0009	(0.0009	0
	*CHLORDANE, TOTAL	0.002	mg/L	NR				1	(0.00014	(0.00014	0	1	(0.00014	(0.00014	0
	*1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.0002	mg/L	NR				1	(0.00001	(0.00001	0	1	(0.00001	(0.00001	0
	*2,4-D	0.05	mg/L	NR				1	(0.00001	(0.00001	0	1	(0.00001	(0.00001	0
	*ENDRIN	0.002	mg/L	NR				1	(0.00006	(0.00006	0	1	(0.00006	(0.00006	0
	*1,2-DIBROMOETHANE (EDB)	0.00005	mg/L	NR				1	(0.00001	(0.00001	0	1	(0.00001	(0.00001	0
	*HEPTACHLOR	0.0004	mg/L	NR				1	(0.000003	(0.000003	0	1	(0.000003	(0.000003	0
	*HEPTACHLOR EPOXIDE	0.0002	mg/L	NR				1	(0.000004	(0.000004	0	1	(0.000004	(0.000004	0
	*LINDANE	0.0002	mg/L	NR				1	(0.000003	(0.000003	0	1	(0.000003	(0.000003	0
	*METHOXYCHLOR	0.04	mg/L	NR				1	(0.00096	(0.00096	0	1	(0.00096	(0.00096	0
	POLYCHLORINATED BIPHENYLS (PCB)	0.0005	mg/L	NR				1	(0.015	(0.015	0	1	(0.015	(0.015	0
	PENTACHLOROPHENOL	0.001	mg/L	NR				1	(0.00008	(0.00008	0	1	(0.00008	(0.00008	0
	*TOXAPHENE	0.003	mg/L	NR				1	(0.001	(0.001	0	1	(0.001	(0.001	0
	*2,4,5-TP (SILVEX)	0.01	mg/L	NR				1	(0.00001	(0.00001	0	1	(0.00001	(0.00001	0
SOC.2	PESTICIDES AND SOCs														
	*ALDRIN	0.005	mg/L	NR				1	(0.00075	(0.00075	0	1	(0.00075	(0.00075	0
	BENZO(A)PYRENE	0.0002	mg/L	NR				1	(0.0001	(0.0001	0	1	(0.0001	(0.0001	0
	BUTACHLOR	0.05	mg/L	NR				1	(0.0004	(0.0004	0	1	(0.0004	(0.0004	0
	CARBARYL	0.05	mg/L	NR				1	(0.0007	(0.0007	0	1	(0.0007	(0.0007	0
	DALAPON	0.2	mg/L	NR				1	(0.000001	(0.000001	0	1	(0.000001	(0.000001	0
	DI(2-ETHYLHEXYL)ADIPATE	0.4	mg/L	NR				1	(0.0001	(0.0001	0	1	(0.0001	(0.0001	0
	DI(2-ETHYLHEXYL)PHTHALATES	0.006	mg/L	NR				1	(0.0001	(0.0001	0	1	(0.0001	(0.0001	0
	DICAMBA	0.05	mg/L	NR				1	(0.00001	(0.00001	0	1	(0.00001	(0.00001	0
	*DIELDRIN	0.005	mg/L	NR				1	(0.000012	(0.000012	0	1	(0.000012	(0.000012	0
	DINOSEB	0.007	mg/L	NR				1	(0.00001	(0.00001	0	1	(0.00001	(0.00001	0
	GLYPHOSATE	0.7	mg/L	NR				1	(0.001	(0.001	0	1	(0.001	(0.001	0
	HEXACHLOROBENZENE	0.001	mg/L	NR				1	(0.000002	(0.000002	0	1	(0.000002	(0.000002	0
	HEXACHLOROCYCLOPENTADIENE	0.05	mg/L	NR				1	(0.00013	(0.00013	0	1	(0.00013	(0.00013	0
	3-HYDROXYCARBOFURAN	0.05	mg/L	NR				1	(0.0016	(0.0016	0	1	(0.0016	(0.0016	0
	METHOMYL	0.05	mg/L	NR				1	(0.0007	(0.0007	0	1	(0.0007	(0.0007	0
	METOLACHLOR	0.05	mg/L	NR				1	(0.00075	(0.00075	0	1	(0.00075	(0.00075	0
	METRIBUZIN	0.05	mg/L	NR				1	(0.00015	(0.00015	0	1	(0.00015	(0.00015	0
	OXAMYL (VYDATE)	0.2	mg/L	NR				1	(0.0016	(0.0016	0	1	(0.0016	(0.0016	0
	PICLORAM	0.5	mg/L	NR				1	(0.00007	(0.00007	0	1	(0.00007	(0.00007	0
	PROPACHLOR	0.05	mg/L	NR				1	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0
	SIMAZINE	0.004	mg/L	NR				1	(0.00007	(0.00007	0	1	(0.00007	(0.00007	0

ANALYTICAL RESULTS OF SOURCE SAMPLES - [illegible]

	ALLOWABLE MAXIMUM CONTAMINANT LEVEL		WELL # 1870-1877 WEST SHORE ROAD NO. OF SAMPLES ANALYZED AT EACH POINT	HIGH VALUE	LOW VALUE	MEAN VALUE	WELL # [illegible] LOCUST LANE NO. OF SAMPLES ANALYZED AT EACH POINT	HIGH VALUE	LOW VALUE	MEAN VALUE	WELL [illegible] GLEN COVE ROAD NO. OF SAMPLES ANALYZED AT EACH POINT	HIGH VALUE	LOW VALUE	MEAN VALUE
SOC.3 PESTICIDES AND SOCs														
DIQUAT	0.02	ug/L	NR				NR				NR			
ENDOTHALL	0.1	ug/L	NR				NR				NR			
2,3,7,8-TCDD(DIOXIN)	0.00003	ug/L	NR				NR				NR			
POC.1 VOLATILE HALOCARBONS														
BROMOCHLOROMETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
BROMOMETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
CARBON TETRACHLORIDE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
CHLOROETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
CHLOROMETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
DIBROMOMETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
DICHLORODIFLUOROMETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,1-DICHLOROETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,2-DICHLOROETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,1-DICHLOROETHYLENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
CIS-1,2-DICHLOROETHYLENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
TRANS-1,2-DICHLOROETHYLENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,2-DICHLOROPROPANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,3-DICHLOROPROPANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
2,2-DICHLOROPROPANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,1-DICHLOROPROPANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
CIS-1,3-DICHLOROPROPENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
TRANS-1,3-DICHLOROPROPENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
DICHLOROMETHANE(METHYLENE CHLORIDE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,1,1,2-TETRACHLOROETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,1,2,2-TETRACHLOROETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
TETRACHLOROETHYLENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,1,1-TRICHLOROETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,1,2-TRICHLOROETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
TRICHLOROETHYLENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
TRICHLOROFLUOROMETHANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,2,3-TRICHLOROPROPANE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
VINYL CHLORIDE	0.002	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
BROMOFORM	0.05	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
BROMODICHLOROMETHANE	0.05	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
CHLOROFORM	0.05	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
CHLORODIBROMOMETHANE	0.05	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
POC.2 VOLATILE AROMATICS														
BENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
BROMOBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
N-BUTYLBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
SEC-BUTYLBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
TERT-BUTYLBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
CHLOROBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
O-CHLOROTOLUENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
P-CHLOROTOLUENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
M-DICHLOROBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
O-DICHLOROBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
P-DICHLOROBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
ETHYLBENZENE	0.005	ug/L	4	(0.0005	(0.0005	0	1	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0

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	ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 1870-1877 WEST SHORE ROAD HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 2400 LOCUST LANE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 4265 GLEN COVE ROAD HIGH VALUE	LOW VALUE	MEAN VALUE
POC.2 VOLATILE AROMATICS (continue)														
HEXACHLOROBUTADIENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
ISOPROPYLBENZENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
P-ISOPROPYLOLUENE(CYMENE)	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
N-PROPYLBENZENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
STYRENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
TOLUENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
1,2,3-TRICHLOROBENZENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
1,2,4-TRICHLOROBENZENE	0.07	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
1,2,4-TRIMETHYLBENZENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
1,3,5-TRIMETHYLBENZENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
M-XYLENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
O-XYLENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
P-XYLENE	0.005	mg/L	4	<0.0005	<0.0005	0	1	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0

NR; NOT REQUIRED

ANALYTICAL RESULTS OF SOURCE SAMPLES - 1994

		ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 4623 DIANAS TRAIL HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 5872 SYCAMORE DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE
PHY.1	PHYSICAL										
	TURBIDITY	5	unit	3	0.88	0.14	0.59	1	0.15	0.15	0.15
	COLOR	15	unit	3	5	<5	1.6666	1	<5	<5	0
	ODOR	3	unit	3	1	1	1	1	0	0	0
	TEMPERATURE	-									
IOC.1	INORGANIC										
	ARSENIC	0.05	mg/l	4	<1.005	<0.002	0	1	<0.002	<0.002	0
	BARIUM	2.0	mg/l	4	0.02	<0.004	0.0075	1	<0.004	<0.004	0
	CADMIUM	0.005	mg/l	4	<0.001	<0.001	0	1	<0.001	<0.001	0
	CHROMIUM	0.10	mg/l	4	<0.02	<0.002	0	1	<0.02	<0.02	0
	FLUORIDE	2.2	mg/l	4	0.06	<0.01	0.03	1	<0.01	<0.01	0
	LEAD	0.015	mg/l	4	0.001	<0.0005	0.00025	1	0.002	0.002	0.002
	MERCURY	0.002	mg/l	4	<0.0005	<0.0002	0	1	<0.0005	<0.0005	0
	SELENIUM	0.01	mg/l	4	<0.005	<0.005	0	1	<0.005	<0.005	0
	SILVER	0.05	mg/l	4	<0.005	<0.005	0	1	<0.005	<0.005	0
IOC.2	INORGANIC										
	AMMONIA	-	mg/l	4	0.06	<0.01	0.0225	1	0.36	0.36	0.36
	CHLORIDE	250.0	mg/l	4	26.6	7	16.3	1	5.31	5.31	5.31
	COPPER	1.3	mg/l	4	<0.02	<0.02	0	1	<0.02	<0.02	0
	FORMING AGENTS	-		4	<0.05	<0.05	0	1	<0.05	<0.05	0
	IRON	0.3	mg/l	4	0.07	<0.025	0.7675	1	0.03	0.03	0.03
	MANGANESE	0.3	mg/l	4	<0.02	<0.02	0	1	<0.02	<0.02	0
	NITRATE	10.0	mg/l	4	4.99	2.38	4.0425	1	1.99	1.99	1.99
	NITRITES	1.0	mg/l	4	<0.01	<0.01	0	1	<0.01	<0.01	0
	SODIUM	-	mg/l	4	35	10	23.575	1	4.26	4.26	4.26
	SULFATE	250.0	mg/l	4	18.2	4.54	14.185	1	3.46	3.46	3.46
	ZINC	5.0	mg/l	4	<0.01	<0.01	0	1	0.02	0.02	0.02
IOC.3	INORGANIC										
	ANTIMONY	0.006	mg/l	4	<00.003	<00.003	0	1	<00.003	<00.003	0
	BERYLLIUM	0.004	mg/l	4	<0.002	<0.002	0	1	<0.002	<0.002	0
	NICKEL	0.1	mg/l	4	<0.06	<0.06	0	1	<0.06	<0.06	0
	THALLIUM	0.002	mg/l	4	<0.002	<0.002	0	1	<0.002	<0.002	0
	CYANIDE, FREE	0.2	mg/l	4	<0.04	<0.04	0	1	<0.04	<0.04	0

		ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 4623 DIANAS TRAIL HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 5872 SYCAMORE DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE
COR.1	CORROSIVITY										
	CALCIUM HARDNESS	-	mg/l	4	46	35.2	41.15	1	7	7	7
	LANGLIER SATURATION INDEX	-		4	-1.68	-0.41	-1.2325	1	-3	-3	-3
	PH	7.5 - 8.5	mg/l	4	8	6.6	7.15	1	6.9	6.9	6.9
	TOTAL ALKALINITY	-	mg/l	4	79.7	56	67.825	1	9.41	9.41	9.41
	TOTAL DISSOLVED SOLIDS	-	mg/l	4	277	120	183.25	1	48	48	48
	TOTAL HARDNESS	-	mg/l	4	92	71.6	82.65	1	37	37	37
SOC.1	PESTICIDES AND SOCs										
	ALACHLOR	0.002	mg/L	4	<0.00038	<0.00038	0	4	<0.00038	<0.00038	0
	ALDICARB	0.003	mg/L	4	<0.0013	<0.0013	0	4	<0.0013	<0.0013	0
	ALDICARB SULFOXIDE	0.004	mg/L	4	<0.0008	<0.0008	0	4	<0.0008	<0.0008	0
	ALDICARB SULFONE	0.002	mg/L	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
	ATRAZINE	0.003	mg/L	4	<0.00013	<0.00013	0	4	<0.00013	<0.00013	0
	CARBOFURAN	0.04	mg/L	4	<0.0009	<0.0009	0	4	<0.0009	<0.0009	0
	*CHLORDANE, TOTAL	0.002	mg/L	4	<0.00014	<0.00014	0	4	<0.00014	<0.00014	0
	*1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.0002	mg/L	4	<0.00001	<0.00001	0	4	<0.00001	<0.00001	0
	*2,4-D	0.05	mg/L	4	<0.00001	<0.00001	0	4	<0.00001	<0.00001	0
	*ENDRIN	0.002	mg/L	4	<0.00006	<0.00006	0	4	<0.00006	<0.00006	0
	*1,2-DIBROMOETHANE (EDB)	0.00005	mg/L	4	<0.00001	<0.00001	0	4	<0.00001	<0.00001	0
	*HEPTACHLOR	0.0004	mg/L	4	<0.000003	<0.000003	0	4	<0.000003	<0.000003	0
	*HEPTACHLOR EPOXIDE	0.0002	mg/L	4	<0.000004	<0.000004	0	4	<0.000004	<0.000004	0
	*LINDANE	0.0002	mg/L	4	<0.000003	<0.000003	0	4	<0.000003	<0.000003	0
	*METHOXYCHLOR	0.04	mg/L	4	<0.00096	<0.00096	0	4	<0.00096	<0.00096	0
	POLYCHLORINATED BIPHENYLS (PCB)	0.0005	mg/L	4	<0.015	<0.015	0	4	<0.015	<0.015	0
	PENTACHLOROPHENOL	0.001	mg/L	4	<0.00008	<0.00008	0	4	<0.00008	<0.00008	0
	*TOXAPHENE	0.003	mg/L	4	<0.001	<0.001	0	4	<0.001	<0.001	0
	*2,4,5-TP (SILVEX)	0.01	mg/L	4	<0.00001	<0.00001	0	4	<0.00001	<0.00001	0
	PESTICIDES AND SOCs										
	*ALDRIN	0.005	mg/L	4	<0.00075	<0.00075	0	4	<0.00075	<0.00075	0
	BENZO(A)PYRENE	0.0002	mg/L	4	<0.0001	<0.0001	0	4	<0.0001	<0.0001	0
	BUTACHLOR	0.05	mg/L	4	<0.0004	<0.0004	0	4	<0.0004	<0.0004	0
	CARBARYL	0.05	mg/L	4	<0.0007	<0.0007	0	4	<0.0007	<0.0007	0
	DALAPON	0.2	mg/L	4	<0.000001	<0.000001	0	4	<0.000001	<0.000001	0
	DI(2-ETHYLHEXYL)ADIPATE	0.4	mg/L	4	<0.0001	<0.0001	0	4	<0.0001	<0.0001	0
	DI(2-ETHYLHEXYL)PHTHALATES	0.006	mg/L	4	<0.0001	<0.0001	0	4	<0.0001	<0.0001	0
	DICAMBA	0.05	mg/L	4	<0.00001	<0.00001	0	4	<0.00001	<0.00001	0
	*DIELDRIN	0.005	mg/L	4	<0.000012	<0.000012	0	4	<0.000012	<0.000012	0
	DINOSEB	0.007	mg/L	4	<0.00001	<0.00001	0	4	<0.00001	<0.00001	0
	GLYPHOSATE	0.7	mg/L	4	<0.001	<0.001	0	4	<0.001	<0.001	0
	HEXACHLOROBENZENE	0.001	mg/L	4	<0.000002	<0.000002	0	4	<0.000002	<0.000002	0
	HEXACHLOROCYCLOPENTADIENE	0.05	mg/L	4	<0.00013	<0.00013	0	4	<0.00013	<0.00013	0
	3-HYDROXYCARBOFURAN	0.05	mg/L	4	<0.0016	<0.0016	0	4	<0.0016	<0.0016	0
	METHOMYL	0.05	mg/L	4	<0.0007	<0.0007	0	4	<0.0007	<0.0007	0
	METOLACHLOR	0.05	mg/L	4	<0.00075	<0.00075	0	4	<0.00075	<0.00075	0
	METRIBUZIN	0.05	mg/L	4	<0.00015	<0.00015	0	4	<0.00015	<0.00015	0
	OXAMYL (VYDATE)	0.2	mg/L	4	<0.0016	<0.0016	0	4	<0.0016	<0.0016	0
	PICLORAM	0.5	mg/L	4	<0.00007	<0.00007	0	4	<0.00007	<0.00007	0
	PROPACHLOR	0.05	mg/L	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
	SIMAZINE	0.004	mg/L	4	<0.00007	<0.00007	0	4	<0.00007	<0.00007	0

		ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 4623 DIANAS TRAIL HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 5872 SYCAMORE DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE
SOC.3	PESTICIDES AND SOCs										
	DIQUAT	0.02	mg/L	NR				NR			
	ENDOTHALL	0.1	mg/L	NR				NR			
	2,3,7,8-TCDD(DIOXIN)	0.00003	mg/L	NR				NR			
POC.1	VOLATILE HALOCARBONS										
	BROMOCHLOROMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	BROMOMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CARBON TETRACHLORIDE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLOROMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	DIBROMOMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	DICHLORODIFLUOROMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1-DICHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,2-DICHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1-DICHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CIS-1,2-DICHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	TRANS-1,2-DICHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,2-DICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,3-DICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	2,2-DICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1-DICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CIS-1,3-DICHLOROPROPENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	TRANS-1,3-DICHLOROPROPENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	DICHLOROMETHANE(METHYLENE CHLORIDE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1,1,2-TETRACHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1,2,2-TETRACHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	TETRACHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1,1-TRICHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1,2-TRICHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	TRICHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	TRICHLOROFLUOROMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,2,3-TRICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	VINYL CHLORIDE	0.002	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	BROMOFORM	0.05	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	BROMODICHLOROMETHANE	0.05	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLOROFORM	0.05	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLORODIBROMOMETHANE	0.05	mg/L		(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
POC.2	VOLATILE AROMATICS										
	BENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	BROMOBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	N-BUTYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	SEC-BUTYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	TERT-BUTYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	CHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	O-CHLOROTOLUENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	P-CHLOROTOLUENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	M-DICHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	O-DICHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	P-DICHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0
	ETHYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005		4	(0.0005	(0.0005	0

	ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 4623 DIANAS TRAIL HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 5872 SYCAMORE DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE
POC.2 VOLATILE AROMATICS (continue)										
HEXACHLOROBUTADIENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
ISOPROPYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
P-ISOPROPYLTOLUENE(CYMENE)	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
N-PROPYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
STYRENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
TOLUENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,2,3-TRICHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,2,4-TRICHLOROBENZENE	0.07	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,2,4-TRIMETHYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
1,3,5-TRIMETHYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
M-XYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
O-XYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
P-XYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0

ANALYTICAL RESULTS OF SOURCE SAMPLES - 1994

				NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 7164 PARTRIDGE DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 7073 TARA DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 8010 MINEOLA AVE HIGH VALUE	LOW VALUE	MEAN VALUE
		ALLOWABLE MAXIMUM CONTAMINANT LEVEL													
PHY.1	PHYSICAL														
	TURBIDITY	5	unit	1	0.01	0.01	0.01	2	0.15	0.06	0.105	4	0.3	0.1	0.1825
	COLOR	15	unit	1	<5	<5	0	2	<5	<5	0	4	<5	<5	0
	ODOR	3	unit	1	0	0	0	2	0	0	0	4	0	0	0
	TEMPERATURE	-													
IOC.1	INORGANIC														
	ARSENIC	0.05	mg/l	1	<0.002	<0.002	0	2	<0.002	<0.01	0	4	<0.002	<0.002	0
	BARIUM	2.0	mg/l	1	<0.004	<0.004	0	2	<0.004	<0.004	0	4	0.01	<0.004	0.0025
	CADMIUM	0.005	mg/l	1	<0.001	<0.001	0	2	<0.001	<0.001	0	4	<0.001	<0.001	0
	CHROMIUM	0.10	mg/l	1	<0.02	<0.02	0	2	<0.001	<0.001	0	4	<0.02	<0.02	0
	FLUORIDE	2.2	mg/l	1	<0.01	<0.01	0	2	<0.01	<0.01	0	4	0.17	<0.01	0.0675
	LEAD	0.015	mg/l	1	0.001	0.001	0.001	2	<0.02	<0.02	0	4	0.001	<0.0005	0.00025
	MERCURY	0.002	mg/l	1	<0.0005	<0.0005	0	2	0.002	<0.0005	0.01	4	<0.0005	<0.0005	0
	SELENIUM	0.01	mg/l	1	<0.005	<0.005	0	2	<0.0005	<0.0005	0	4	<0.005	<0.005	0
	SILVER	0.05	mg/l	1	<0.005	<0.005	0	2	<0.005	<0.005	0	4	<0.005	<0.005	0
IOC.2	INORGANIC														
	AMMONIA	-	mg/l	1	0.18	0.18	0.18	2	<0.03	<0.01	0	4	0.27	<0.01	0.0675
	CHLORIDE	250.0	mg/l	1	3.68	3.68	3.68	2	3.55	3.54	3.545	4	36.9	0.5	25.125
	COPPER	1.3	mg/l	1	<0.02	<0.02	0	2	<0.02	<0.005	0	4	<0.02	<0.02	0
	FORMING AGENTS	-		1	<0.05	<0.05	0	2	<0.05	<0.05	0	4	<0.05	<0.05	0
	IRON	0.3	mg/l	1	0.04	0.04	0.04	2	<0.025	<0.02	0	4	0.06	<0.025	0.015
	MANGANESE	0.3	mg/l	1	<0.02	<0.02	0	2	0.09	<0.02	0	4	<0.02	<0.02	0
	NITRATE	10.0	mg/l	1	1.67	1.67	1.67	2	1.19	1.14	1.165	4	6.68	5.33	6.175
	NITRITES	1.0	mg/l	1	<0.01	<0.01	0	2	<0.01	<0.01	0	4	0.09	<0.01	0.0225
	SODIUM	-	mg/l	1	4.3	4.3	4.3	2	3.34	3	3.17	4	20	16.4	17.9
	SULFATE	250.0	mg/l	1	2.69	2.69	2.69	2	0.54	0.42	0.48	4	20.3	16.4	18.15
	ZINC	5.0	mg/l	1	0.02	0.02	0.02	2	0.02	<0.01	0.01	4	0.05	<0.01	0.025
IOC.3	INORGANIC														
	ANTIMONY	0.006	mg/l	1	<00.003	<00.003	0	2	<00.003	<00.003	0	4	<00.003	<00.003	0
	BERYLLIUM	0.004	mg/l	1	<0.002	<0.002	0	2	<0.002	<0.002	0	4	<0.002	<0.002	0
	NICKEL	0.1	mg/l	1	<0.06	<0.06	0	2	<0.06	<0.06	0	4	<0.06	<0.06	0
	THALLIUM	0.002	mg/l	1	<0.002	<0.002	0	2	<0.002	<0.002	0	4	<0.002	<0.002	0
	CYANIDE, FREE	0.2	mg/l	1	<0.04	<0.04	0	2	<0.04	<0.04	0	4	<0.04	<0.04	0

		ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 7104 PARTRIDGE DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 7873 TARA DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 8010 MINEOLA AVE HIGH VALUE	LOW VALUE	MEAN VALUE
COR.1	CORROSIVITY														
	CALCIUM HARDNESS	-	mg/l	1	12.4	12.4	12.4	2	3.2	2.8	3	4	54	31.6	38.6
	LANGLIER SATURATION INDEX	-		1	-2.5	-2.5	-2.5	2	-4.54	-4.4	-4.47	4	-2.85	-1.67	-2.3275
	PH	7.5 - 8.5	mg/l	1	7	7	7	2	6.1	6.1	6.1	4	7.1	6.2	6.6
	TOTAL ALKALINITY	-	mg/l	1	13.8	13.8	13.8	2	5.3	5	5.15	4	28.5	18.6	19.525
	TOTAL DISSOLVED SOLIDS	-	mg/l	1	35	35	35	2	150	55	102.5	4	266	65	159.5
	TOTAL HARDNESS	-	mg/l	1	26.4	26.4	26.4	2	11.2	6.8	9	4	84.4	44	66.5
SOC.1	PESTICIDES AND SOCs														
	ALACHLOR	0.002	mg/L	4	(0.00038	(0.00038	0	4	(0.00038	(0.00038	0	4	(0.00038	(0.00038	0
	ALDICARB	0.003	mg/L	4	(0.0013	(0.0013	0	4	(0.0013	(0.0013	0	4	(0.0013	(0.0013	0
	ALDICARB SULFOXIDE	0.004	mg/L	4	(0.0008	(0.0008	0	4	(0.0008	(0.0008	0	4	(0.0008	(0.0008	0
	ALDICARB SULFONE	0.002	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	ATRAZINE	0.003	mg/L	4	(0.00013	(0.00013	0	4	(0.00013	(0.00013	0	4	(0.00013	(0.00013	0
	CARBOFURAN	0.04	mg/L	4	(0.0009	(0.0009	0	4	(0.0009	(0.0009	0	4	(0.0009	(0.0009	0
	*CHLORDANE, TOTAL	0.002	mg/L	4	(0.00014	(0.00014	0	4	(0.00014	(0.00014	0	4	(0.00014	(0.00014	0
	*1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.0002	mg/L	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0
	*2,4-D	0.05	mg/L	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0
	*ENDRIN	0.002	mg/L	4	(0.00006	(0.00006	0	4	(0.00006	(0.00006	0	4	(0.00006	(0.00006	0
	*1,2-DIBROMOETHANE (EDB)	0.00005	mg/L	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0
	*HEPTACHLOR	0.0004	mg/L	4	(0.000003	(0.000003	0	4	(0.000003	(0.000003	0	4	(0.000003	(0.000003	0
	*HEPTACHLOR EPOXIDE	0.0002	mg/L	4	(0.000004	(0.000004	0	4	(0.000004	(0.000004	0	4	(0.000004	(0.000004	0
	*LINDANE	0.0002	mg/L	4	(0.000003	(0.000003	0	4	(0.000003	(0.000003	0	4	(0.000003	(0.000003	0
	*METHOXYCHLOR	0.04	mg/L	4	(0.00096	(0.00096	0	4	(0.00096	(0.00096	0	4	(0.00096	(0.00096	0
	POLYCHLORINATED BIPHENYLS (PCB)	0.0005	mg/L	4	(0.015	(0.015	0	4	(0.015	(0.015	0	4	(0.015	(0.015	0
	PENTACHLOROPHENOL	0.001	mg/L	4	(0.00008	(0.00008	0	4	(0.00008	(0.00008	0	4	(0.00008	(0.00008	0
	*TOXAPHENE	0.003	mg/L	4	(0.001	(0.001	0	4	(0.001	(0.001	0	4	(0.001	(0.001	0
	*2,4,5-TP (SILVEX)	0.01	mg/L	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0
SOC.2	PESTICIDES AND SOCs														
	*ALDRIN	0.005	mg/L	4	(0.00075	(0.00075	0	4	(0.00075	(0.00075	0	4	(0.00075	(0.00075	0
	BENZO(A)PYRENE	0.0002	mg/L	4	(0.0001	(0.0001	0	4	(0.0001	(0.0001	0	4	(0.0001	(0.0001	0
	BUTACHLOR	0.05	mg/L	4	(0.0004	(0.0004	0	4	(0.0004	(0.0004	0	4	(0.0004	(0.0004	0
	CARBARYL	0.05	mg/L	4	(0.0007	(0.0007	0	4	(0.0007	(0.0007	0	4	(0.0007	(0.0007	0
	DALAPON	0.2	mg/L	4	(0.000001	(0.000001	0	4	(0.000001	(0.000001	0	4	(0.000001	(0.000001	0
	DI(2-ETHYLHEXYL)ADIPATE	0.4	mg/L	4	(0.0001	(0.0001	0	4	(0.0001	(0.0001	0	4	(0.0001	(0.0001	0
	DI(2-ETHYLHEXYL)PHTHALATES	0.006	mg/L	4	(0.0001	(0.0001	0	4	(0.0001	(0.0001	0	4	(0.0001	(0.0001	0
	DICAMBA	0.05	mg/L	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0
	*DIELDRIN	0.005	mg/L	4	(0.000012	(0.000012	0	4	(0.000012	(0.000012	0	4	(0.000012	(0.000012	0
	DINOSEB	0.007	mg/L	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0	4	(0.00001	(0.00001	0
	GLYPHOSATE	0.7	mg/L	4	(0.001	(0.001	0	4	(0.001	(0.001	0	4	(0.001	(0.001	0
	HEXACHLOROBENZENE	0.001	mg/L	4	(0.000002	(0.000002	0	4	(0.000002	(0.000002	0	4	(0.000002	(0.000002	0
	HEXACHLOROCYCLOPENTADIENE	0.05	mg/L	4	(0.00013	(0.00013	0	4	(0.00013	(0.00013	0	4	(0.00013	(0.00013	0
	3-HYDROXYCARBOFURAN	0.05	mg/L	4	(0.0016	(0.0016	0	4	(0.0016	(0.0016	0	4	(0.0016	(0.0016	0
	METHOMYL	0.05	mg/L	4	(0.0007	(0.0007	0	4	(0.0007	(0.0007	0	4	(0.0007	(0.0007	0
	METOLACHLOR	0.05	mg/L	4	(0.00075	(0.00075	0	4	(0.00075	(0.00075	0	4	(0.00075	(0.00075	0
	METRIBUZIN	0.05	mg/L	4	(0.00015	(0.00015	0	4	(0.00015	(0.00015	0	4	(0.00015	(0.00015	0
	OXAMYL (VYDATE)	0.2	mg/L	4	(0.0016	(0.0016	0	4	(0.0016	(0.0016	0	4	(0.0016	(0.0016	0
	PICLORAM	0.5	mg/L	4	(0.00007	(0.00007	0	4	(0.00007	(0.00007	0	4	(0.00007	(0.00007	0
	PROPACHLOR	0.05	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	SIMAZINE	0.004	mg/L	4	(0.00007	(0.00007	0	4	(0.00007	(0.00007	0	4	(0.00007	(0.00007	0

		ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 7104 PARTRIDGE DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 7873 TARA DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 8810 MINEOLA AVE HIGH VALUE	LOW VALUE	MEAN VALUE
SOC.3	PESTICIDES AND SOCs														
	DIQUAT	0.02	mg/L	NR				NR				NR			
	ENDOTHALL	0.1	mg/L	NR				NR				NR			
	2,3,7,8-TCDD(DIOXIN)	0.00003	mg/L	NR				NR				NR			
POC.1	VOLATILE HALOCARBONS														
	BROMOCHLOROMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	BROMOMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CARBON TETRACHLORIDE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLOROMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	DIBROMOMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	DICHLORODIFLUOROMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1-DICHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.0012	(0.0005	0.00065
	1,2-DICHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.00095	(0.0005	0.00036
	1,1-DICHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CIS-1,2-DICHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.0015	(0.0005	0.000375
	TRANS-1,2-DICHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,2-DICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,3-DICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	2,2-DICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1-DICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.0015	(0.0005	0.000375
	CIS-1,3-DICHLOROPROPENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.00061	(0.0005	0.0001525
	TRANS-1,3-DICHLOROPROPENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	DICHLOROMETHANE(METHYLENE CHLORIDE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1,1,2-TETRACHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,1,2,2-TETRACHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	TETRACHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.00099	(0.0005	0.00045
	1,1,1-TRICHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.0025	(0.0005	0.001675
	1,1,2-TRICHLOROETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	TRICHLOROETHYLENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.0032	(0.0005	0
	TRICHLOROFLUOROMETHANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	1,2,3-TRICHLOROPROPANE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	VINYL CHLORIDE	0.002	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	BROMOFORM	0.05	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	BROMODICHLOROMETHANE	0.05	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLOROFORM	0.05	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLORODIBROMOMETHANE	0.05	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	0.00073	(0.0005	0.0003275
POC.2	VOLATILE AROMATICS														
	BENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	BROMOBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	N-BUTYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	SEC-BUTYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	TERT-BUTYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	CHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	O-CHLOROTOLUENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	P-CHLOROTOLUENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	M-DICHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	O-DICHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	P-DICHLOROBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0
	ETHYLBENZENE	0.005	mg/L	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0	4	(0.0005	(0.0005	0

	ALLOWABLE MAXIMUM CONTAMINANT LEVEL		NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 7104 PARTRIDGE DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 7873 TARA DRIVE HIGH VALUE	LOW VALUE	MEAN VALUE	NO. OF SAMPLES ANALYZED AT EACH POINT	WELL # 8010 MINEOLA AVE HIGH VALUE	LOW VALUE	MEAN VALUE
VOLATILE AROMATICS (continue)														
HEXACHLOROBUTADIENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
ISOPROPYLBENZENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
P-ISOPROPYLOLUENE(CYMENE)	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
N-PROPYLBENZENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
STYRENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
TOLUENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
1,2,3-TRICHLOROBENZENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
1,2,4-TRICHLOROBENZENE	0.07	mg/L	4	0	0.07	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
1,2,4-TRIMETHYLBENZENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
1,3,5-TRIMETHYLBENZENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
M-XYLENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
O-XYLENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0
P-XYLENE	0.005	mg/L	4	0	0.005	0	4	<0.0005	<0.0005	0	4	<0.0005	<0.0005	0

REFERENCE 57

RECORD OF TELEPHONE CONVERSATION

DATE: November 14, 1995

TO: Carmine Cipriano
Business Manager
Roslyn Water District
(516) 621-7770

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
POPULATION SERVED BY ROSLYN WATER DISTRICT WELLS

Mr. Cipriano indicated that there are 8 wells within the Roslyn Water District of which only 6 are in service. The total population serviced within the district is 17,000.

cc: File

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 58

Reference 58
Page 1 of 3

516-483-1180
FAX (516) 483-3880

West Hempstead-Hempstead Gardens Water District

575 BIRCH STREET
WEST HEMPSTEAD, N.Y. 11552

AWWA MEMBER
AMERICAN WATER WORKS ASSOCIATION

FAX TRANSMITTAL SHEET

DATE: 11-8-95

TIME: 2:40 A.M. _____ P.M. X

NUMBER OF PAGES (Incl. cover sheet: 3

TO Joseph Fischl

COMPANY: EBASCO

FAX NUMBER: 1-201-842-7291

* * * * * * * * * * * *

FROM R. York

RE: Wells.

COMMENTS

_____

_____

_____

_____

AT YOUR SERVICE

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Village/Township: West Hempstead Contact: Mr. Robert P. York Date: 11-07-95

Source (Circle One): Ground Water, Surface Water, Both

Standby Water Supply:

Is surface water blended with well water? NO.

Surface Water Intake or Well No./Name	Well Depth	Production	Population Served
WELL #1 N-75	183 ft.	1.06 MGD	32,000
WELL #2 N-76	193 ft.	1.09 MGD	"
WELL #3 N-2239	178 ft.	1.44 MGD	"
WELL #4 N-3704	160 ft.	1.51 MGD	"
WELL #5 N-4118	204 ft.	1.58 MGD	"
WELL #6 N-5260	515 ft.	1.24 MGD	"
WELL #7 N-7720	510 ft.	1.56 MGD	"
WELL #8 N-9452	601 ft.	1.90 MGD	"
WELL #9 N 10408	605 ft.	1.99 MGD	"
WELL#10 N-10401	593 ft.	1.99 MGD	"

Prepared by Robert P. York

WELL # 7
7TH STREET PLANT
WELLS 1,2,3,4,5,6,8,9,10.
Birch Street PLANT
WEST HEMPSTEAD
LAKEVIEW
LAKE VIEW STA.
MALVERNE
17
27
12
16
18

REFERENCE 59

Reference 59
Page 1 of 3

Mayor
THOMAS M. MULDOON

Deputy Mayor
JOSEPH F. CONNELLY

Trustees
LUDWIG A. ODIERNA
TERESA THOMANN
BERNARD P. KENNEDY

Village Clerk-Treasurer
RAE CARAMANICA

Incorporated Village of

WILLISTON PARK

494 Willis Avenue
Williston Park, N.Y. 11596-1738
(516) 746-2193
FAX: (516) 746-7109

FAX COVER SHEET

TO: Joe Fischl

FROM: Alan Goldsman

MESSAGE: 873-7662
-7670

DATE: 12/8/95

TOTAL NUMBER OF PAGES 2 (INCLUDING COVER SHEET)

If you do not receive all the pages as indicated above, please call _____ at telephone #: (516-746-2193)

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We are transmitting from FAX NO. (516) 746-7185

USEPA SITE INSPECTION PRIORITIZATION
DRINKING WATER SUPPLY DATA
STAR CARTING, GARDEN CITY PARK, NEW YORK

Reference 59
Page 2 of 3

Village/Township: VILLAGE OF WILLISTON PARK Contact:

Date: 12-8-95

Source (Circle One): (Ground Water) Surface Water, Both

Standby Water Supply: 1,500,000 GALS

Is surface water blended with well water? NO

Surface Water Intake or Well No/ Name	Well Depth	Production	Population Served
WELL # 1 N-103	380'	400 GPM	7,500** Succasuna & Stratford
WELL # 2 N-104	376'	1300 GPM	7,500 "
WELL # 3 N-2487	338'	1000 GPM	7,500 Williams & Cambridge
WELL # 4 N-8248	400'	1300 GPM	7,500 Nassau Blvd & Sheridan*

* New Water tested positive for VOC's

** 7,500 for all four wells from telecon w/ A. Gelderman OK. 12/8/95

Prepared by ALAN GELDERMAN

NYSDOH ID# 10478

LAB NO: 9533439

WILLISTON PARK, INC. VILLAGE
494 WILLIS AVE.
WILLISTON, NY 11596

TYPE..... POTABLE WATER
ROUTINE
ORIGIN.... WELL
WELL TYPE. RAW

Reference 59
Page 3 of 3

DATE COLLECTED. 11/30/95
TIME COLLECTED. 0800 HRS.
DATE RECEIVED.. 11/30/95
COLLECTED BY... RS99
FED-ID..... 2902858

POINT NO: N8248
LOCATION: WELL #4

REMARKS:

VOLATILE ORGANICS (METHOD 502.2) - (ug/l)

PARAMETER (S)	RESULT	LIMIT
DICHLORODIFLUOROMETHANE	<0.5	5.0
CHLOROMETHANE	<0.5	5.0
VINYL CHLORIDE	<0.5	2.0
BROMOMETHANE	<0.5	5.0
CHLOROETHANE	<0.5	5.0
FLUOROTRICHLOROMETHANE	<0.5	5.0
1,1-DICHLOROETHENE	<0.5	5.0
METHYLENE CHLORIDE	<0.5	5.0
TRANS-1,2-DICHLOROETHENE	<0.5	5.0
1,1-DICHLOROETHANE	<0.5	5.0
CIS-1,2-DICHLOROETHENE	<0.5	5.0
2,2-DICHLOROPROPANE	<0.5	5.0
BROMOCHLOROMETHANE	<0.5	5.0
CHLOROFORM	<0.5	5.0
1,1,1-TRICHLOROETHANE	<0.5	100
CARBON TETRACHLORIDE	<0.5	5.0
1,1-DICHLOROPROPENE	<0.5	5.0
1,2-DICHLOROETHANE	<0.5	5.0
TRICHLOROETHENE	<0.5	5.0
1,2-DICHLOROPROPANE	<0.5	5.0
DIBROMOMETHANE	<0.5	5.0
BROMODICHLOROMETHANE	<0.5	5.0
TRANS-1,3-DICHLOROPROPENE	<0.5	100
CIS-1,3-DICHLOROPROPENE	<0.5	5.0
1,1,2-TRICHLOROETHANE	<0.5	5.0
TETRACHLOROETHENE	<0.5	5.0
1,3-DICHLOROPROPANE	*48	5.0
CHLORODIBROMOMETHANE	<0.5	5.0
CHLOROBENZENE	<0.5	100
1,1,1,2-TETRACHLOROETHANE	<0.5	5.0
BROMOFORM	<0.5	5.0
BROMOBENZENE	<0.5	100
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0

PARAMETER (S)	RESULT	LIMIT
1,2,3-TRICHLOROPROPANE	<0.5	5.0
2-CHLOROTOLUENE	<0.5	5.0
4-CHLOROTOLUENE	<0.5	5.0
M-DICHLOROBENZENE	<0.5	5.0
P-DICHLOROBENZENE	<0.5	5.0
O-DICHLOROBENZENE	<0.5	5.0
1,2,4-TRICHLOROBENZENE	<0.5	5.0
HEXACHLOROBUTADIENE	<0.5	70.0
1,2,3-TRICHLOROBENZENE	<0.5	5.0
BENZENE	<0.5	5.0
TOLUENE	<0.5	5.0
ETHYLBENZENE	<0.5	5.0
1,3-XYLENE	<0.5	5.0
1,4-XYLENE	<0.5	5.0
1,2-XYLENE	<0.5	5.0
STYRENE	<0.5	5.0
ISOPROPYLBENZENE (CUMENE)	<0.5	5.0
N-PROPYLBENZENE	<0.5	5.0
1,3,5-TRIMETHYLBENZENE	<0.5	5.0
TERT-BUTYLBENZENE	<0.5	5.0
1,2,4-TRIMETHYLBENZENE	<0.5	5.0
SEC-BUTYLBENZENE	<0.5	5.0
P-ISOPROPYLTOLUENE	<0.5	5.0
N-BUTYLBENZENE	<0.5	5.0

Result(s) marked * exceed(s) NEW YORK STATE/USEPA limits for potable water.

COPIES TO: NCHD

DATE RUN..... 12/01/95
DATE REPORTED.. 12/04/95

DATE ISSUED 12/04/95

ORIGINAL

J M Alaimo
LABORATORY DIRECTOR

REFERENCE 60

FROST ASSOCIATES

P.O. Box 495, Essex, Connecticut 06426
(203) 767-1254 Fax (203) 767-7069

May 15, 1993

To: Edgar Aguado
Ebasco Services Inc
160 Chubb Ave
Lindhurst, NJ 07071-3586

Fr: Bob Frost
Frost Associates
P.O. Box 495
Essex, CT 06426

Tel: (203) 767-1254
Fax: (203) 767-7069

Sub: Star Carting Camp
94 Denton Ave
Garden City
Nassau County, NY

CERCLIS: NYD064726938

Site Longitude: 73.671944
Site Latitude : 40.740280

The CENTRACTS report below identifies the population, households, and private water wells of each Block Group that lies within, or partially within, the 4, 3, 2, 1, .5, and .25, mile "rings" of the latitude and longitude coordinates above. CENTRACTS may have up to ten radii of any length. 1000 block groups, and 15000 block group sides.

CENTRACTS uses the 1990 Block Group population and Block Group house count data found in the Census Bureau's 1990 STF-1A files. The sources of water supply data are from the Bureau's 1990 STF-3A files. The boundary line coordinates of the Block Groups were extracted from the Census Bureau's 1990 TIGER/Line Files.

CENTRACTS reports are created with programs written by Frost Associates, P.O. Box 495, Essex, Conn. The code was written using Microsoft's Quick-Basic Ver. 4.5.

Latitude and Longitude coordinates identifying a site are entered in degrees and decimal degrees. One or more county files holding Block Group boundary lines are selected for use by CENTRACTS by determining whether the site coordinates fall within the minimum and maximum Lat\Lon coordinates of each county in the state.

Each Block Group line segment has Lat\Lon coordinates representing the "From" and "To" ends of that line. All coordinates from the selected county files are read and converted from degrees, decimal degrees to X\Y miles from the site location. Each line segment is then examined whether it lies within or partially within the maximum ring from the site.

The unique Block Group ID numbers of each line segment that lie within the maximum ring are retained. All Block Group boundary lines matching the Block Group numbers are then extracted from the respective county files to obtain all sides of the in cluded Block Groups. Boundary records are then sorted in adjacent side order to determine the shape and area of each Block Group polygon.

A method to solve for the area of a polygon is to take one-half the sum of the pro ducts obtained by multiplying each X-coordinate by the difference between the adja

cent Y-coordinates. For a polygon with coordinates at adjacent angles A, B, C, D, and E. The formula can be expressed:

Area = 1/2{Xa(Ye-Yb)+ Xb(Ya-Yb)+ Xc(Yb-Yd)+ Xd(Yc-Ye)+ Xe(Yd-Ya)}

For each ring, the selected Block Groups will be inside, outside, or intersected by the ring. When a polygon is intersected, the partial Block Group area within that ring is calculated using the method described below.

When a ring intersects a Block Group, the intersect points are solved and plotted at the points where the ring enters and exits the shape. The chord line, a line within the circle connecting the intersect points is determined. This chord line is used to calculate the segment area, the half moon shape between the chord line and the ring, and the sub-polygon created by the chord line and the Block Group boundaries that lie outside the ring.

The segment area is subtracted from the sub-polygon area to determine the area of the sub-polygon outside the ring. The area outside the ring is then subtracted from the area of the entire polygon to arrive at the inside area. This inside area is then divided by the tract's total area to determine the percentage of area within the ring. This process is repeated for each block group that is intersected by one of the rings. The total area, partial area, and percentage of partial area of those block groups within, or partially within a ring, are held in memory for the report.

On occasion, the algorithm described above is unable to determine the area of the partial area. Within the report program is a "Paint" routine which allows an enclosed shape to be highlighted. Another routine calculates the percentage of highlighted screen pixels to the pixels within the polygon. A manual entry is allowed. Both the "paint" method and manual entry method over ride the calculated method.

CENTRACTS lists, starting on page 4, all Block Groups in State, County, Census Tract, and Block Group ID order that lie within, or partially within, the maximum ring. Each Block Group is identified by a City or Town name and by the Block Group's State, County, Tract and Block Group ID number. Following is the Block Group's 1990 populu tion and house count extracted from the Census Bureau's 1990 STF-1A files.

The next four columns display water source data from the 1990 STF-3A files. The first column is "Units with Public system or private company source of water", followed by "Units with individual well, Drilled, source of water"; "Units with individual well, Dug, source of water" and "Units with Other source of water".

For each ring, CENTRACTS then shows the Block Groups that are within that ring, the Block Group's total area in square miles, the partial area of the Block Group within that ring, and the partial percentage within the ring. The areas of the included Block Group and the partial areas are then totaled.

The last section tallies the demographic data within each ring. The percentage of area for each Block Group is multiplied times the census data for that Block Group and totaled for all Block Group's within the ring. Ring totals are then determined by subtracting the three mile data from the four mile, the two mile from the three mile, one from the two, etc... Population on private wells is calculated using the formula: ((Drilled + Dug Wells) / Households) * Population

Star Carting Camp
94 Denton Ave
Garden City
Nassau County, NY
NYD064726938

Households:	51218.99
Drilled Wells:	58.18
Dug Wells:	11.88
Other Water Sources:	56.99

** Population On Private Wells: 201.89

---- Within Ring: 3 Mile(s) and 2 Mile(s) ----

Population:	111650.70
Households:	42074.23
Drilled Wells:	42.09
Dug Wells:	11.95
Other Water Sources:	42.87

** Population On Private Wells: 143.40

---- Within Ring: 2 Mile(s) and 1 Mile(s) ----

Population:	71909.76
Households:	26019.07
Drilled Wells:	58.39
Dug Wells:	0.00
Other Water Sources:	31.76

** Population On Private Wells: 161.37

---- Within Ring: 1 Mile(s) and .5 Mile(s) ----

Population:	18459.41
Households:	6381.33
Drilled Wells:	10.22
Dug Wells:	0.00
Other Water Sources:	7.80

** Population On Private Wells: 29.57

---- Within Ring: .5 Mile(s) and .25 Mile(s) ----

Population:	4570.49
Households:	1592.60
Drilled Wells:	14.61
Dug Wells:	0.00
Other Water Sources:	3.65

** Population On Private Wells: 41.94

---- Within Ring: .25 Mile(s) and 0 Mile(s) ----

Star Carting Camp
94 Denton Ave
Garden City
Nassau County, NY
NYD064726938

Population:	1092.49
Households:	377.08
Drilled Wells:	1.24
Dug Wells:	0.00
Other Water Sources:	0.31

** Population On Private Wells: 3.60

** Total Population On Private Wells: 581.77

REFERENCE 61

RECORD OF TELEPHONE CONVERSATION

DATE: September 20, 1995

TO: Ernie Cavagnaro, Chief of Repairs
(718) 595-5268
NYDEP
Bureau of Water Supply and Waste Water Collection

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
DRINKING WATER SUPPLY

Mr. Cavagnaro indicated that New York City provides water for all of Queens with the exception of Jamaica. The source of New York City's water supply for Queens is from surface water piped from the Catskill Mountains. Jamaica's water supply is obtained locally from ground water.

cc: File

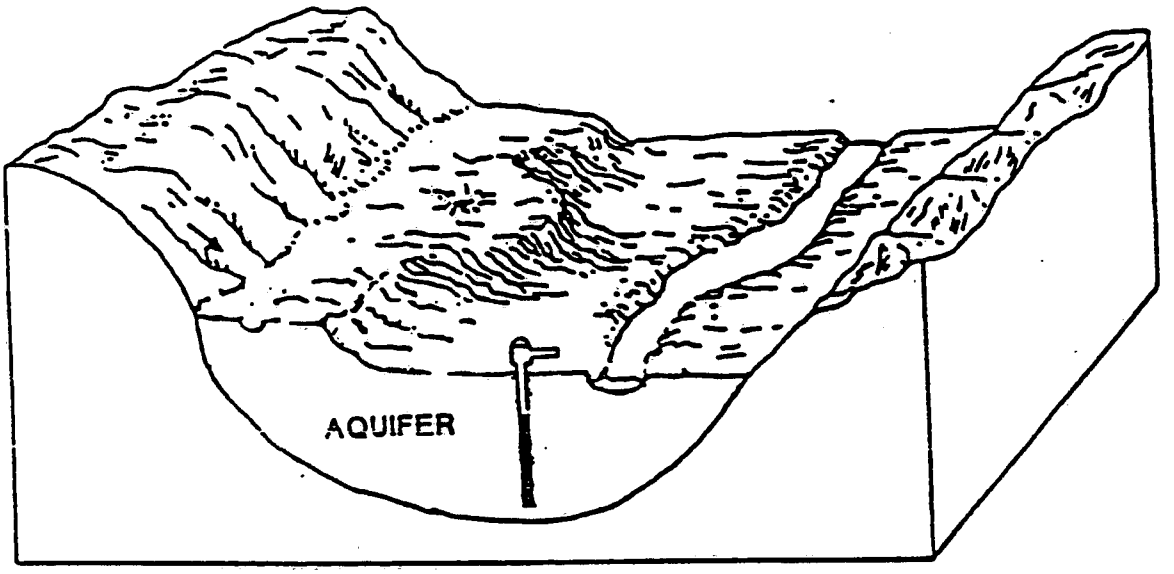
Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 62

USFWS Wetland Inventory Maps Used:
Freeport, NY
Hicksville, NY
Lynnbrook, NY
Sea Cliff, NY
Latitude, Longitude (Site Center):
lat. 40° 44' 25" N
Long. 74° 40' 19" W
N
S
E
W
Roslyn Harbor
Flower Hill
Plandome
Plandome Heights
Manhasset
Kensington
Great Neck
Great Neck Plaza
Thomaston
Whitney Lake
Strathmore
Roslyn Estates
Roslyn Heights
Harbor Hill
Greenvale
Old Westbury
North Hills
Searingtown
Albertson
Lake Success
Douglaston
Glen Oaks
Oakland Gardens
WILLISTON PARK
East Williston
Herricks
MINEOLA
NORTH HEMPSTEAD
NEW HYDE PARK
Garden City Park
GARDEN CITY
QUEENS
Bellerose
FLORAL PARK
Queens Village
Stewart Manor
South Floral Park
Garden City South
HEMPSTEAD
Franklin Square
West Hempstead
Elmont
Hempstead Gardens
Valley Stream
North Valley Stream
MALVERNE
Rosedale
Springfield Gardens
Laurelton
SCALE 1:24 000
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
KILOMETER
U.S. ENVIRONMENTAL PROTECTION AGENCY
Fifteen-Mile Surface Water Pathway Map
Star Carting Company
94 Denton Avenue
Garden City Park, New York

Department of Environmental Conservation

NEW YORK STATE WELLHEAD PROTECTION PROGRAM



Submittal
to
United States Environmental Protection Agency

New York State Department of Environmental Conservation
MARIO M. CUOMO, *Governor* THOMAS C. JORLING, *Commissioner*

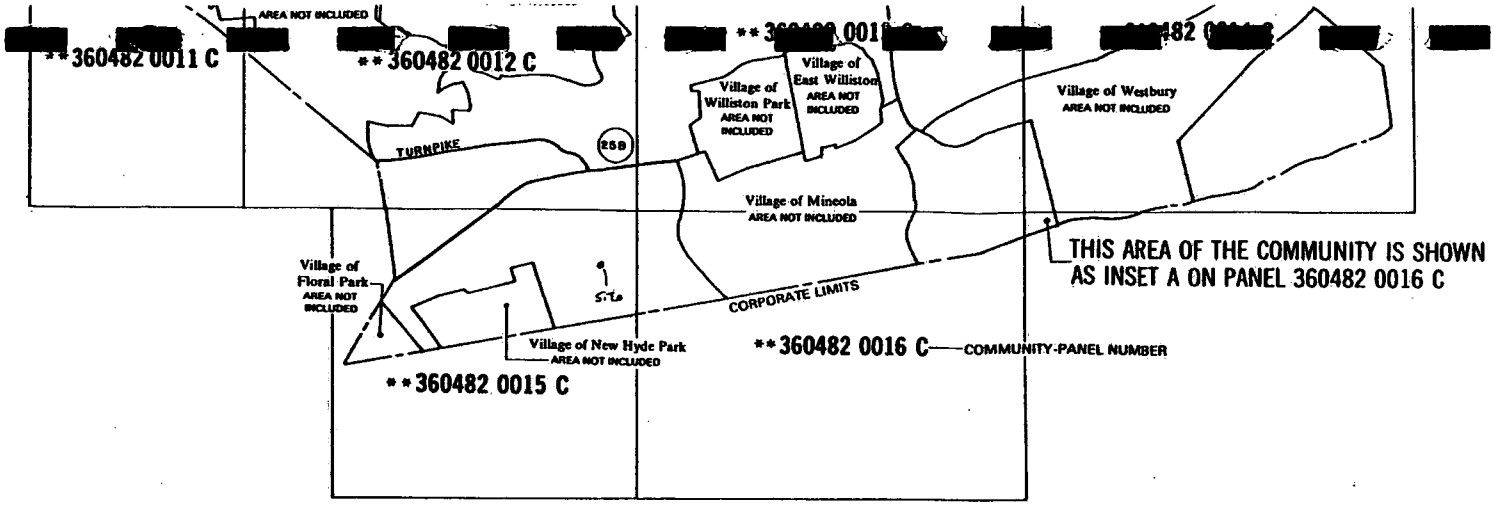
September 1990

TABLE 3.1.
WELLHEAD PROTECTION AREA
DELINEATION SUMMARY

Geographic Region	Aquifer Area	Wellhead Protection Area Baseline Delineation
Long Island	Magothy & Lloyd Aquifers	Deep Flow Recharge Area
	Glacial Aquifer	Simplified Variable Shape: 1,500 ft. radius upgradient 500 ft. radius downgradient
Upstate	Unconsolidated Aquifers	Aquifer Boundaries (land surface)
	Bedrock Aquifers	Fixed Radius: 1,500 ft. radius

REFERENCE 63

REFERENCE 64



*PANEL NOT PRINTED: AREA NOT INCLUDED
**PANEL NOT PRINTED: AREA IN ZONE C
***PANEL NOT PRINTED: OPEN WATER AREA

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
NORTH HEMPSTEAD, NEW YORK
NASSAU COUNTY

MAP INDEX
PANELS PRINTED: 5, 6, 7, 8, 9.

COMMUNITY-PANEL NUMBERS
360482 0001-0016

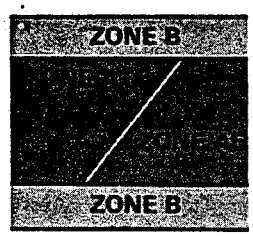
MAP REVISED:
MAY 16, 1983

Federal Emergency Managemen

Reference 64
Page 1 of 3

KEY TO MAP

500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations*
100-Year Flood Boundary
500-Year Flood Boundary



Base Flood Elevation Line With Elevation In Feet** — 513

Base Flood Elevation in Feet Where Uniform Within Zone** — (EL 987)

Elevation Reference Mark — RM7×

Zone D Boundary

River Mile — •M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance and flood plain management purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas. The coastal flooding elevations shown may differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

For adjoining map panels, see separately printed Index To Map Panels.

Coastal base flood elevations shown on this map include the effects of wave action.

Coastal base flood elevations apply only landward of the shoreline

may be protected by flood control structures.

This map is for flood insurance and flood plain management purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas. The coastal flooding elevations shown may differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

For adjoining map panels, see separately printed Index To Map Panels.

Coastal base flood elevations shown on this map include the effects of wave action.

Coastal base flood elevations apply only landward of the shoreline shown on this map.

INITIAL IDENTIFICATION:
JULY 19, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS:
JULY 9, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:
FEBRUARY 15, 1984

FLOOD INSURANCE RATE MAP REVISIONS:

For Description of Elevation Reference Marks, See Panel 340313 0005 B

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.

APPROXIMATE SCALE

400 0 400 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

REFERENCE 65

PB88 237 961

RAINFALL FREQUENCY ATLAS OF THE U.S. FOR DURATIONS FROM 30 MINUTES TO 24 HOURS AND RETURN PERIODS FROM 1 TO 100 YEARS

WEATHER BUREAU
WASHINGTON, D.C.

MAY 61

U.S. DEPARTMENT OF COMMERCE
National Technical Information Service
NTIS

Reference 63
Page 1 of 2

U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

PB88-237961

TECHNICAL PAPER NO. 40

RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years

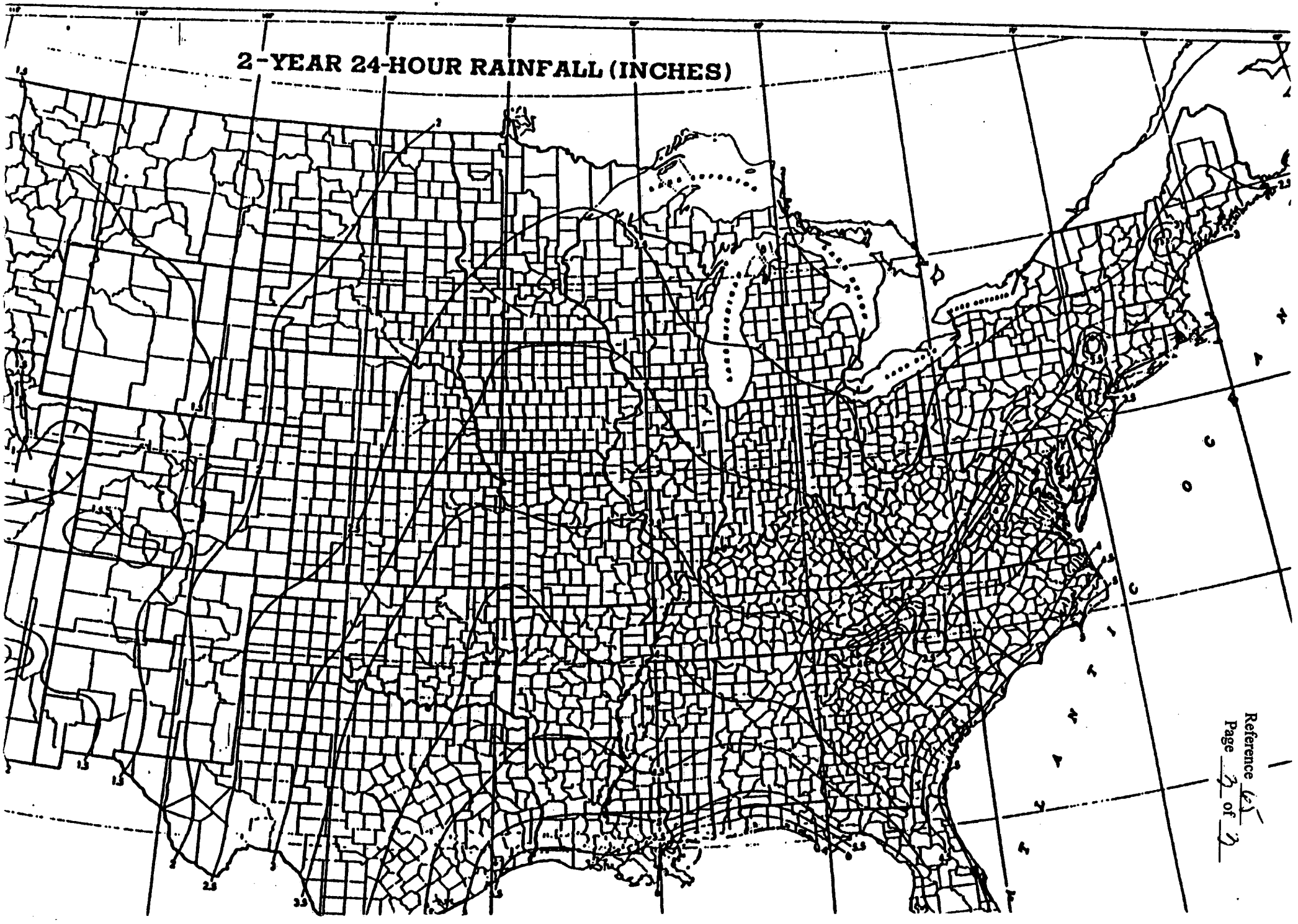
WASHINGTON, D.C.

May 1961

Reprinted and Reprinted January 1963

Reference 65
Page 2 of 3

REPRODUCED BY
U.S. DEPARTMENT OF COMMERCE
NATIONAL TECHNICAL
INFORMATION SERVICE



Reference 65
Page 3 of 3

REFERENCE 66

RECORD OF TELEPHONE CONVERSATION

DATE: October 23,1995

TO: Don Trusch
Civil Engineer
Nassau County Department of Public Works
Division of Highways and Engineering
(516) 571-4322

FROM: J. Fischl

SUBJECT: **ARCS II PROGRAM - EPA CONTRACT NO 68-W8-0110**
WORK ASSIGNMENT 076-2JZZ
STAR CARTING COMPANY SITE
STORM DRAINAGE

Storm drains along 4th Street in Garden City Park discharge to a storm line which runs under 4th Street. The 4th Street line discharges to a storm main located under Denton Avenue. Denton Avenue eventually turns into Tanners Pond Road south of the Long Island Railroad Right of Way. The storm main extends south on Tanners Pond Road and discharges to Recharge Basin No. 232 which is located on Tanners Pond Road between the Long Island Railroad Right-of-Way and Colonial Avenue.

cc: File

Joseph Fischl, Site Assessor, (FWENC)

REFERENCE 67

United States Department of the Interior

FISH AND WILDLIFE SERVICE
3817 Luker Road
Cortland, New York 13045

September 7, 1995

Mr. Joseph Fischl
Senior Ecologist
Ebasco Services Incorporated
1290 Wall Street West
Lyndhurst, NJ 07071-0061

Dear Mr. Fischl:

This responds to your letter of July 26, 1995, requesting information on the presence of endangered or threatened species in the vicinity of the Star Carting Company Site located at 94 Denton Avenue, Garden City Park, Nassau County, New York.

Except for occasional transient individuals, no Federally listed or proposed endangered or threatened species under our jurisdiction are known to exist in the project impact area. Therefore, no Biological Assessment or further Section 7 consultation under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) is required with the U.S. Fish and Wildlife Service (Service). Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered. A compilation of Federally listed and proposed endangered and threatened species in New York is enclosed for your information.

The above comments pertaining to endangered species under our jurisdiction are provided pursuant to the Endangered Species Act. This response does not preclude additional Service comments under the Fish and Wildlife Coordination Act or other legislation.

For additional information on fish and wildlife resources or State-listed species, we suggest you contact:

New York State Department
of Environmental Conservation
Region 1
Building 40, SUNY
Stony Brook, NY 11794
(516) 444-0200

New York State Department
of Environmental Conservation
Wildlife Resources Center - Information Serv.
New York Natural Heritage Program
700 Troy-Schenectady Road
Latham, NY 12110-2400
(518) 783-3932

The National Wetlands Inventory (NWI) maps of the Freeport, Hicksville, Lynbrook, and Sea Cliff Quadrangles are available and may show wetlands in the project vicinity. However, while the NWI maps are reasonably accurate, they should not be used in lieu of field surveys for determining the presence of wetlands or delineating wetland boundaries for Federal regulatory purposes.

Work in certain waters and wetlands of the United States may require a permit from the U.S. Army Corps of Engineers (Corps). If a permit is required, in reviewing the application pursuant to the Fish and Wildlife Coordination Act, the Service may concur, with or without stipulations, or recommend denial of the permit depending upon the potential adverse impacts on fish and wildlife resources associated with project implementation. The need for a Corps permit may be determined by contacting Mr. Joseph Seebode, Chief, Regulatory Branch, U.S. Army Corps of Engineers, 26 Federal Plaza, New York, NY 10278 (telephone: [212] 264-3996).

If you have any questions regarding this letter, contact Tom McCartney at (607) 753-9334.

Sincerely,

Mark W. Clough

ACTING FOR

Sherry W. Morgan
Field Supervisor

Enclosure

cc: NYSDEC, Stony Brook, NY (Regulatory Services)
NYSDEC, Latham, NY
COE, New York, NY
EPA, Chief, Marine & Wetlands Protection Branch, New York, NY

FEDERALLY LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES IN NEW YORK

Common Name	Scientific Name	Status	Distribution
FISHES			
Sturgeon, shortnose*	*Acipenser brevirostrum*	E	Hudson River & other Atlantic coastal rivers
REPTILES			
Turtle, green*	*Chelonia mydas*	T	Oceanic summer visitor coastal waters
Turtle, hawksbill*	*Eretmochelys imbricata*	E	Oceanic summer visitor coastal waters
Turtle, leatherback*	*Dermochelys coriacea*	E	Oceanic summer resident coastal waters
Turtle, loggerhead*	*Caretta caretta*	T	Oceanic summer resident coastal waters
Turtle, Atlantic ridley*	*Lepidochelys kempii*	E	Oceanic summer resident coastal waters
BIRDS			
Eagle, bald	*Haliaeetus leucocephalus*	T	Entire state
Falcon, peregrine	*Falco peregrinus*	E	Entire state - re-establishment to former breeding range in progress
Plover, piping	*Charadrius melodus*	E T	Great Lakes Watershed Remainder of coastal New York
Tern, roseate	*Sterna dougallii dougallii*	E	Southeastern coastal portions of state
MAMMALS			
Bat, Indiana	*Myotis sodalis*	E	Entire state
Cougar, eastern	*Felis concolor couguar*	E	Entire state - probably extinct
Whale, blue*	*Balaenoptera musculus*	E	Oceanic
Whale, finback*	*Balaenoptera physalus*	E	Oceanic
Whale, humpback*	*Megaptera novaeangliae*	E	Oceanic
Whale, right*	*Eubalaena glacialis*	E	Oceanic
Whale, sei*	*Balaenoptera borealis*	E	Oceanic
Whale, sperm*	*Physeter catodon*	E	Oceanic
MOLLUSKS			
Snail, Chittenango ovate amber	*Succinea chittenangoensis*	T	Madison County
Mussel, dwarf wedge	*Alasmidonta heterodon*	E	Orange County - lower Neversink River

* Except for sea turtle nesting habitat, principal responsibility for these species is vested with the National Marine Fisheries Service.

Region 5 - 08/11/95 - 2 pp.

FEDERALLY LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES IN NEW YORK (Cont'd)

Common Name	Scientific Name	Status	Distribution
BUTTERFLIES			
Butterfly, Karner blue	*Lycaeides melissa samuelis*	E	Albany, Saratoga, Warren, and Schenectady Counties
PLANTS			
Monkshood, northern wild	*Aconitum noveboracense*	T	Ulster, Sullivan, and Delaware Counties
Pogonia, small whorled	*Isotria medeoloides*	T	Entire state
Swamp pink	*Helonias bullata*	T	Staten Island - presumed extirpated
Gerardia, sandplain	*Agalinis acuta*	E	Nassau and Suffolk Counties
Fern, American hart's-tongue	*Phyllitis scolopendrium* var. *americana*	T	Onondaga and Madison Counties
Orchid, eastern prairie fringed	*Platanthera leucophea*	T	Not relocated in New York
Bulrush, northeastern	*Scirpus ancistrochaetus*	E	Not relocated in New York
Roseroot, Leedy's	*Sedum integrifolium* ssp. *Leedyi*	T	West shore of Seneca Lake
Amaranth, seabeach	*Amaranthus pumilus*	T	Atlantic coastal plain beaches
Goldenrod, Houghton's	*Solidago houghtonii*	T	Genesee County

E=endangered T=threatened P=proposed

Region 5 - 08/11/95 - 2 pp.

REFERENCE 68

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Wildlife Resources Center
700 Troy-Schenectady Road
Latham, NY 12110-2400

(518) 783-3932

August 14, 1995

Joseph Fischl
EBASCO Services Inc.
1290 Wall Street West
Lyndhurst, NJ 07071-0661

Dear Mr. Fischl:

We have reviewed the New York Natural Heritage Program files with respect to your recent request for biological information concerning the EPA Site Inspection Prioritization site: Star Carting Co., site as indicated on your enclosed map, located in the Town of North Hempstead, Nassau County, New York State.

Enclosed is a computer printout covering the area you requested to be reviewed by our staff. The information contained in this report is considered sensitive and may not be released to the public without permission from the New York Natural Heritage Program.

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 can only provide data which have been assembled from our files. We cannot provide a definitive statement on the presence or absence of species, habitats or natural communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

This response applies only to known occurrences of rare animals, plants and natural communities and/or significant wildlife habitats. You should contact our regional office, Division of Regulatory Affairs, at the address enclosed for information regarding any regulated areas or permits that may be required (e.g., regulated wetlands) under State Law.

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.

Sincerely,
Information Services
New York Natural Heritage Program

Encs.
cc: Reg. 1, Wildlife Mgr.
Reg. 1, Fisheries Mgr.

BIOLOGICAL AND CONSERVATION DATA SYSTEM - ELEMENT OCCURRENCE REPORT, 11 AUG 1995

Prepared by N.Y.S.D.E.C. Natural Heritage Program, Latham New York

(This report contains sensitive information which should be treated in a sensitive manner. Refer to the users guide for explanation of codes and ranks.)

* COUNTY & TOWN	USGS TOPO MAP/ LAT. & LONG.	PRECISION	LAST SEEN	EO RANK	SCIENTIFIC AND COMMON NAME	ELEMENT TYPE	NY STATUS	US STATUS	HERITAGE RANKS	OFFICE USE	OFFICE	USE
* NASSAU												
HEMPSTEAD	LYNBROOK 404401 733849	M	1919	F	AGALINIS ACUTA SANDPLAIN GERARDIA	VASCULAR PLANT	E	LE	G1 S1		4007366	72
HEMPSTEAD	LYNBROOK 404343 733835	M	1921	H	DIGITARIA FILIFORMIS SLENDER CRABGRASS	VASCULAR PLANT	R		G5 S2		4007366	49
HEMPSTEAD	LYNBROOK 404343 733845	M	1920	X	HELIANTHEMUM DUMOSUM BUSHY ROCKROSE	VASCULAR PLANT	T	C2	G3 S2		4007366	18
HEMPSTEAD	LYNBROOK 404300 734045	M	1919	H	POLYGONUM SETACEUM VAR INTERJECTUM SWAMP SMARTWEED	VASCULAR PLANT	U		G5T4 S1S2		4007366	78
HEMPSTEAD	LYNBROOK 404345 733828	M	1906	H	SCLERIA PAUCIFLORA VAR CAROLINIANA FEWFLOWER NUTRUSH	VASCULAR PLANT	T		G5T4T5 S1		4007366	64
NORTH HEMPSTEAD	LYNBROOK 404452 733810	M	1906	X	AGALINIS ACUTA SANDPLAIN GERARDIA	VASCULAR PLANT	E	LE	G1 S1		4007366	19

6 Records Processed

Reference 66
Page 2 of 4

BIOLOGICAL AND CONSERVATION DATA SYSTEM - ELEMENT OCCURRENCE REPORT, 11 AUG 1995
Prepared by N.Y.S.D.E.C. Natural Heritage Program, Latham New York

within 3 miles

(This report contains sensitive information which should be treated in a sensitive manner. Refer to the users guide for explanation of codes and ranks.)

* COUNTY & TOWN	USGS TOPO MAP/ LAT. & LONG.	PRECISION	LAST SEEN	EO RANK	SCIENTIFIC AND COMMON NAME	ELEMENT TYPE	NY STATUS	US STATUS	HERITAGE RANKS	OFFICE USE	OFFICE USE
* NASSAU											
HEMPSTEAD	LYNBROOK 403755 734258	M	1905	H	CAREX COLLINSII COLLINS SEDGE	VASCULAR PLANT	R		G4 S1S2		4007366 38
HEMPSTEAD	LYNBROOK 404235 733754	M	1922	H	DIGITARIA FILIFORMIS SLENDER CRABGRASS	VASCULAR PLANT	R		G5 S2		4007366 41
HEMPSTEAD	LYNBROOK 404229 733743	M	1925	H	GENTIANA SAPONARIA SOAPWORT GENTIAN	VASCULAR PLANT	R		G5 S1		4007366 43
HEMPSTEAD	LYNBROOK 404238 733802	M	1919	H	HELIANTHUS ANGUSTIFOLIUS SWAMP SUNFLOWER	VASCULAR PLANT	T		G5 S2		4007366 54
NORTH HEMPSTEAD	LYNBROOK 404441 733748	M	1920	X	HELIANTHEMUM DUMOSUM BUSHY ROCKROSE	VASCULAR PLANT	T	C2	G3 S2		4007366 17
NORTH HEMPSTEAD	SEA CLIFF 404543 733754	M	1899	H	DIGITARIA FILIFORMIS SLENDER CRABGRASS	VASCULAR PLANT	R		G5 S2		4007376 7

6 Records Processed

Reference 62
Page 3 of 5

BIOLOGICAL AND CONSERVATION DATA SYSTEM - ELEMENT OCCURRENCE REPORT, 11 AUG 1995
Prepared by N.Y.S.D.E.C. Natural Heritage Program, Latham New York

(This report contains sensitive information which should be treated in a sensitive manner. Refer to the users guide for explanation of codes and ranks.)

* COUNTY & TOWN	USGS TOPO MAP/ LAT. & LONG.	PRECISION	LAST SEEN	EO RANK	SCIENTIFIC AND COMMON NAME	ELEMENT TYPE	NY STATUS	US STATUS	HERITAGE RANKS	OFFICE USE	OFFICE	USE
* NASSAU												
HEMPSTEAD	FREEPORT 404237 733657	M	1916	H	CAREX POLYMORPHA VARIABLE SEDGE	VASCULAR PLANT	U	C2	G2G3 SX		4007365	29
HEMPSTEAD	FREEPORT 404248 733708	M	1924	H	FIMBRISTYLIS PUBERULA HAIRY FIMBRY	VASCULAR PLANT	U		G5 SX		4007365	43
HEMPSTEAD	FREEPORT 404228 733659	M	1906	H	PLANTAGO PUSILLA DWARF PLANTAIN	VASCULAR PLANT	U		G5 S1?		4007365	39
HEMPSTEAD	FREEPORT 404228 733708	G	1898	H	SCUTELLARIA INTEGRIFOLIA HYSSOP-SKULLCAP	VASCULAR PLANT	U		G5 S1		4007365	55
HEMPSTEAD	LYNBROOK 404105 733817	M	1900	H	GENTIANA SAPONARIA SOAPWORT GENTIAN	VASCULAR PLANT	R		G5 S1		4007366	50
HEMPSTEAD	LYNBROOK 404149 733816	M	1923	H	GENTIANA SAPONARIA SOAPWORT GENTIAN	VASCULAR PLANT	R		G5 S1		4007366	51
HEMPSTEAD	LYNBROOK 404130 733839	M	1918	H	ISOTRIA MEDEOLOIDES SMALL WHORLED POGONIA	VASCULAR PLANT	V	LT	G2G3 SH		4007366	21
HEMPSTEAD	LYNBROOK 404113 733818	M	1921	H	POLYGONUM OPELOUSANUM OPELOUSA SMARTWEED	VASCULAR PLANT	U		G5 S3		4007366	30
HEMPSTEAD	LYNBROOK 404113 733818	M	1919	H	SOLIDAGO ELLIOTTII COASTAL GOLDENROD	VASCULAR PLANT	U		G5 S2		4007366	30
HEMPSTEAD	LYNBROOK 404113 733818	M	1906	H	TRICHOSTEMA SETACEUM TINY BLUE-CURLS	VASCULAR PLANT	U		G5 SH		4007366	30
* QUEENS												

Reference 66
Page 4 of 5

BIOLOGICAL AND CONSERVATION DATA SYSTEM - ELEMENT OCCURRENCE REPORT, 11 AUG 1995
Prepared by N.Y.S.D.E.C. Natural Heritage Program, Latham New York

W/in 4 mi

(This report contains sensitive information which should be treated in a sensitive manner. Refer to the users guide for explanation of codes and ranks.)

* COUNTY & TOWN	USGS TOPO MAP/ LAT. & LONG.	PREC-ISION	LAST SEEN	EO RANK	SCIENTIFIC AND COMMON NAME	ELEMENT TYPE	NY STATUS	US STATUS	HERITAGE RANKS	OFFICE USE	OFFICE	USE
CITY OF NEW YORK	LYNBROOK 404426 734433	M	1929	H	CAREX BUXBAUMII BROWN BOG SEDGE	VASCULAR PLANT	R		G5 S2		4007366	37
CITY OF NEW YORK	LYNBROOK 404427 734426	S	1990	B	CUSCUTA POLYGONORUM SMARTWEED DODDER	VASCULAR PLANT	R		G5 S1		4007366	24
CITY OF NEW YORK	LYNBROOK 404427 734426	S	1990	E	CYPERUS ERYTHRORHIZOS RED-ROOTED FLATSEDGE	VASCULAR PLANT	R		G5 S2		4007366	24
CITY OF NEW YORK	LYNBROOK 404426 734433	M	1929	H	LEMNA VALDIVIANA PALE DUCKWEED	VASCULAR PLANT	U		G5 SH		4007366	37
CITY OF NEW YORK	LYNBROOK 404427 734426	S	1987	B	LYSIMACHIA HYBRIDA LANCE-LEAVED LOOSESTRIFE	VASCULAR PLANT	T	3C	G5 S1		4007366	24
CITY OF NEW YORK	SEA CLIFF 404519 734449	M	1984	E	AGASTACHE NEPETOIDES YELLOW GIANT-HYSSOP	VASCULAR PLANT	U		G5 S2S3		4007376	9

16 Records Processed

Reference 60
Page 5 of 9

SIGNIFICANT HABITATS

DATE : 08/11/95

REPORT ID#	NAME OF AREA	TYPE OF AREA	COUNTY	TOWN OR CITY	QUADRANGLE	LATITUDE (DEG MIN SEC)	LONGITUDE
SP 30-022	Lake Success Parkway Woods w/in 3 mi	Unique Scenic Area	Nassau	Hempstead	Sea Cliff	40 45 36	73 42 27
SB 41-006	Creedmoor Farm w/in 4 mi	Wildlife Observation Area	Queens	Queens - New York City	Lynbrook	40 44 12	73 43 54

USERS GUIDE TO NATURAL HERITAGE DATA

DATA SENSITIVITY: **The data provided in these reports is sensitive and should be treated in a sensitive manner. The data is for your in-house use and may not be released to the general public or incorporated in any public document without prior permission from the Natural Heritage Program.**

BIOLOGICAL AND CONSERVATION DATA SYSTEM (BCD) ELEMENT OCCURRENCE REPORTS:

COUNTY NAME: County where the element occurrence is located.
TOWN NAME: Town where the element occurrence is located.
USGS 7 1/2' TOPOGRAPHIC MAP: Name of 7.5 minute US Geological Survey (USGS) quadrangle map (scale 1:24,000).
LAT: Centrum latitude coordinates of the location of the occurrence. Important: latitude and longitude must be used with PRECISION (see below). For example, the location of an occurrence with M (minute) precision is not precisely known at this time and is thought to occur somewhere within a 1.5 mile radius of the given latitude/longitude coordinates.
LONG: Centrum longitude coordinates of the location of the occurrence. See also LAT above.
PRECISION: S - seconds: Location known precisely. (within a 300' or 1-second radius of the latitude and longitude given.
M - minutes: Location known only to within a 1.5 mile (1 minute) radius of the latitude and longitude given.
SIZE (acres): Approximate acres occupied by the element at this location.
SCIENTIFIC NAME: Scientific name of the element occurrence.
COMMON NAME: Common name of the element occurrence.
ELEMENT TYPE: Type of element (i.e. plant, community, other, etc.)
LAST SEEN: Year element occurrence last observed extant at this location.
EO RANK: Comparative evaluation summarizing the quality, condition, viability and defensibility of this occurrence. Use in combination with LAST SEEN and PRECISION.

A-E = Extant: A=excellent, B=good, C=marginal, D=poor, E=extant but with insufficiently data to assign a rank of A - D.
F = Failed to find. Did not locate species, but habitat is still there and further field work is justified.
H = Historic. Historic occurrence without any recent field information.
X = Extirpated. Field/other data indicates element/habitat is destroyed and the element no longer exists at this location.

NYS STATUS - animals: Categories of Endangered and Threatened species are defined in New York State Environmental Conservation Law section 11-0535. Endangered, Threatened, and Special Concern species are listed in regulation 6NYCRR 182.5.

E = Endangered Species: any species which meet one of the following criteria:
1) Any native species in imminent danger of extirpation or extinction in New York.
2) Any species listed as endangered by the United States Department of the Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11.

T = Threatened Species: any species which meet one of the following criteria:
1) Any native species likely to become an endangered species within the foreseeable future in NY.
2) Any species listed as threatened by the U.S. Department of the Interior, as enumerated in the Code of the Federal Regulations 50 CFR 17.11.

SC = Special Concern Species: those species which are not yet recognized as endangered or threatened, but for which documented concern exists for their continued welfare in New York. Unlike the first two categories, species of special concern receive no additional legal protection under Environmental Conservation Law section 11-0535 (Endangered and Threatened Species).

P = Protected Wildlife (defined in Environmental Conservation Law section 11-0103): wild game, protected wild birds, and endangered species of wildlife.

U = Unprotected (defined in Environmental Conservation Law section 11-0103): the species may be taken at any time without limit; however a license to take may be required.

G = Game (defined in Environmental Conservation Law section 11-0103): any of a variety of big game or small game species as stated in the Environmental Conservation Law; many normally have an open season for at least part of the year, and are protected at other times.

NYS STATUS - plants: The following categories are defined in regulation 6NYCRR part 193.3 and apply to New York State Environmental Conservation Law section 9-1503.

(blank) = no state status

E = Endangered Species: listed species are those with:
1) 5 or fewer extant sites, or
2) fewer than 1,000 individuals, or
3) restricted to fewer than 4 U.S.G.S. 7 1/2 minute topographical maps, or
4) species listed as endangered by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.

T = Threatened: listed species are those with:
1) 6 to fewer than 20 extant sites, or
2) 1,000 to fewer than 3,000 individuals, or
3) restricted to not less than 4 or more than 7 U.S.G.S. 7 and 1/2 minute topographical maps, or
4) listed as threatened by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.

R = Rare: listed species have:
1) 20 to 35 extant sites, or
2) 3,000 to 5,000 individuals statewide.

U = Unprotected

V = Exploitably vulnerable: listed species are likely to become threatened in the near future throughout all or a significant portion of their range within the state if causal factors continue unchecked.

NYS STATUS - communities: At this time there are no categories defined for communities.

continued on next page

FEDERAL STATUS (plants and animals): The categories of federal status are defined by the United States Department of the Interior as part of the 1974 Endangered Species Act (see Code of Federal Regulations 50 CFR 17). The species listed under this law are enumerated in the Federal Register vol. 50, no. 188, pp. 39526 - 39527.

(blank) = No Federal Endangered Species Act status.
LE = The taxon is formally listed as endangered.
LT = The taxon is formally listed as threatened.
LELT = The taxon is formally listed as endangered in part of its range and threatened in other parts.
PE = The taxon is proposed as endangered.
PT = The taxon is proposed as threatened.
C1 = Candidate, category 1 - There is sufficient information to list the taxon as endangered or threatened.
C2 = Candidate, category 2 - The taxon may be appropriate for listing but more data are needed.
3A = The taxon considered extinct by the U. S. Fish and Wildlife Service.
3B = The taxon is no longer considered taxonomically distinct by the U.S. Fish and Wildlife Service & thus not appropriate for listing.
3C = The taxon has been shown to be more abundant, widespread, or better protected than previously thought and therefore not in need of official listing.
* = The taxon is possibly extinct.
** = The taxon is thought to be extinct in the wild but extant in cultivation.

Additional codes:
(C2NL) = Heritage code indicating that the taxon is a candidate in some areas, not listed in other areas.
(E/SA) = Heritage code indicating that the taxon is endangered because of similarity of appearance to other endangered species or subspecies.

FEDERAL STATUS (communities): At this time there are no categories defined for communities.

GLOBAL AND STATE RANKS (animals, plants, communities and others): Each element has a global and state rank as determined by the NY Natural Heritage Program. These ranks carry no legal weight. The global rank reflects the rarity of the element throughout the world and the state rank reflects the rarity within New York State. Infraspecific taxa are also assigned a taxon rank to reflect the infraspecific taxon's rank throughout the world.

GLOBAL RANK:
G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences), or very few remaining acres, or miles of stream) or especially vulnerable to extinction because of some factor of its biology.
G2 = Imperiled globally because of rarity (6 - 20 occurrences, or few remaining acres, or miles of stream) or very vulnerable to extinction throughout its range because of other factors.
G3 = Either rare and local throughout its range (21 to 100 occurrences), or found locally (even abundantly at some of its locations) in a restricted range (e.g. a physiographic region), or vulnerable to extinction throughout its range because of other factors.
G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
GH = Historically known, with the expectation that it might be rediscovered.
GX = Species believed to be extinct.
GU = Status unknown.

STATE RANK:
S1 = Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some factor of its biology making it especially vulnerable in New York State.
S2 = Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it very vulnerable in New York State.
S3 = Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.
S4 = Apparently secure in New York State.
S5 = Demonstrably secure in New York State.
SH = Historically known from New York State, but not seen in the past 15 years.
SX = Apparently extirpated from New York State.
SA = Accidental or casual in the state.
SE = Exotic, not native to New York State.
SP = Element potentially occurs in the state but there are no occurrences reported.
SR = Reported in the state but without persuasive documentation.
SU = Status unknown.

TAXON (T) RANK: The T-ranks (T1 - T5) are defined the same way the Global ranks (G1 - G5) are but the T-rank only refers to the rarity of the subspecific taxon of the species as a whole.
T1 through T5 = See Global Rank definitions above.
Q = Indicates a question exists whether or not the taxon is a good taxonomic entity.
? = Indicates a question exists about the rank.

OFFICE USE: Information for use by the Natural Heritage Program.

SIGNIFICANT HABITAT REPORTS:
REPORT ID: Significant habitat file code.
NAME OF AREA: Site name where the significant habitat is located.
TYPE OF AREA: Type of significant habitat.
COUNTY/TOWN OR CITY: County and town where the significant habitat is located.
QUADRANGLE: Name of the USGS 7.5 minute topographic map where the significant habitat is located.
LATITUDE: Latitude coordinates (degrees, minutes, seconds) for the location of the significant habitat.
LONGITUDE: Longitude coordinates for the location of the significant habitat.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGULATORY AFFAIRS REGIONAL OFFICES

REGION	COUNTIES	NAME	ADDRESS AND PHONE NO.
Region 1	Nassau Suffolk	Robert Greene Permit Administrator	Loop Road, Bldg. 40 SUNY Stony Brook, NY 11790-2356 (516) 751-1389
Region 2	New York City	John Ferguson Permit Administrator	Hunters Point Plaza 4740 21st Street Long Island City, NY 11101-5407 (718) 482-4997
Region 3	Dutchess Orange Putnam Rockland, Sullivan Ulster, Westchester	Margaret Duke Permit Administrator	21 South Putt Corners Road New Paltz, NY 12561-1696 (914) 256-3032
Region 4	Albany Columbia Delaware Greene, Montgomery, Otsego Rensselaer, Schenectady, Schoharie	William J. Clarke Permit Administrator	2176 Guilderland Avenue Schenectady, NY 12306-4498 (518) 382-0680
Region 5	Clinton Essex Franklin Fulton, Hamilton Saratoga, Warren, Washington	Richard Wild Permit Administrator	Route 86 Ray Brook, NY 12977 (518) 891-1370
Region 6	Herkimer Jefferson Lewis Oneida, St. Lawrence	Randy Vaas Permit Administrator	State Office Building 317 Washington Street Watertown, NY 13601 (315) 785-2246
Region 7	Broome Cayuga Chenango Cortland, Madison, Onondaga Oswego, Tioga, Tompkins	Robert Torba Permit Administrator	615 Erie Blvd. West Syracuse, NY 13204-2400 (315) 426-7439
Region 8	Chemung Genesee Livingston Monroe, Ontario, Orleans Schuyler, Seneca, Steuben Wayne, Yates	Albert Butkas Permit Administrator	6274 East Avon-Lima Road Avon, NY 14414 (716) 226-2466
Region 9	Allegany Cattaraugus Chautauqua Erie, Niagara, Wyoming	Steven Doleski Permit Administrator	270 Michigan Avenue Buffalo, NY 14203-2999 (716) 851-7165

REFERENCE 69

Reference 69
Page 1 of 1

FOSTER WHEELER ENVIRONMENTAL CORPORATI(

BY Ary Simpadian DATE July 17 '95 SHEET 1 OF 1

CHKD. BY _____ DATE _____ OFS NO. _____ DEPT. NO. _____

CLIENT Scale used 24000

PROJECT measured units in Acres

SUBJECT

¼ = 0	½ = 2.8	1 = 4.26	2 = 2.84	3 = 12.8	4 = 2.84
		4.26	2.84	2.84	2.84
		1.42		2.84	2.84
				1.42	2.84
				7.10	2.84
				8.5	1.42
				1.2	2.84
				1.2	12.80
				11.3	2.84
				2.84	2.84
				2.84	2.84
				2.84	15.07
				1.42	17.07
				2.84	4.26
				2.84	2.84
				2.84	2.84
					2.84
					2.84
					2.84
					2.84
					2.84
					2.84

	¼	½	1	2	3	4
TOTAL	0	2.8	9.94	5.68	67.66	96.06

Total of all = 182.14

* Units measured in Acres

REFERENCE 70

STAR CARTING
GARDEN CITY PARK, NEW YORK
PUBLIC DRINKING WATER SUPPLY DATA (4-MILE RADIUS) BY AQUIFER

Municipality	Well No./ Name	Ring	Geol. Form.	Depth (Feet)	Prod. (GPM)	Population Served [b]	Well Owner	Source Reference
Glacial Aquifer								
Floral Park	35	1-2	G	150	700	5,909	Jamaica Water Supply Co.	48, 49
New Hyde Park	9	1-2	G	106	700	5,909	Jamaica Water Supply Co.	48, 49
				Subtotal 1-2 mi.		**11,818**		
Elmont	44	2-3	G	90	700	5,909	Jamaica Water Supply Co.	48, 49
Elmont	44B	2-3	G	94	700	5,909	Jamaica Water Supply Co.	48, 49
				Subtotal 2-3 mi.		**11,818**		
Elmont	28	3-4	G	87	900	5,909	Jamaica Water Supply Co.	48, 49
				Subtotal 3-4 mi.		**5,909**		
				Subtotal Glacial		**29,545**		
Lloyd Aquifer								
N. New Hyde Park	N1802	1-2	L	691	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
New Hyde Park	16A	1-2	L	722	1,115	5,909	Jamaica Water Supply Co.	48, 49
				Subtotal 1-2 mi.		**8,909**		
Lake Success	N1618	3-4	L	550	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
North Hills	N1328	3-4	L	745	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
				Subtotal 3-4 mi.		**6,000**		
				Subtotal Lloyd		**14,909**		
Magothy Aquifer								
New Hyde Park	20	0-1/4	M	465	1,200	5,909	Jamaica Water Supply Co.	48, 49
				Subtotal 0-14 mi		**5,909**		
Garden City Park	9	1/2-1	M	405	1,200	3,500	Garden City Pk. WD	37, 45
				Subtotal 1/2-1 m		**3,500**		
Floral Park	35A	1-2	M	395	1,800	5,909	Jamaica Water Supply Co.	48, 49
Franklin Square	1	1-2	M	498	1,000	4,000	Franklin Sq. WD	37, 42
Franklin Square	2	1-2	M	198	1,000	4,000	Franklin Sq. WD	37, 42
Garden City	7	1-2	M	539	1,083	2,300	Inc. Village of Garden City	44
Garden City	8	1-2	M	528	1,201	2,300	Inc. Village of Garden City	44
Garden City	9	1-2	M	470	1,097	2,300	Inc. Village of Garden City	44
Garden City	12	1-2	M	480	1,250	2,300	Inc. Village of Garden City	44
Garden City	13	1-2	M	445	1,403	2,300	Inc. Village of Garden City	44
Garden City	14	1-2	M	363	1,299	2,300	Inc. Village of Garden City	44
Garden City Park	6	1-2	M	415	1,200	3,500	Garden City Pk. WD	37, 45
Garden City Park	7	1-2	M	405	1,200	3,500	Garden City Pk. WD	37, 45
Garden City Park	8	1-2	M	380	1,200	3,500	Garden City Pk. WD	37, 45
Garden City Park	10	1-2	M	480	1,200	3,500	Garden City Pk. WD	37, 45
Garden City Park	11	1-2	M	455	1,200	3,500	Garden City Pk. WD	37, 45
Mineola	1	1-2	M	357	764	3,500	Mineola Water Dept.	37, 54
Mineola	3	1-2	M	407	833	3,500	Mineola Water Dept.	37, 54
Mineola	4	1-2	M	463	833	3,500	Mineola Water Dept.	37, 54
Mineola	7	1-2	M	505	1,042	3,500	Mineola Water Dept.	37, 54
New Hyde Park	40	1-2	M	296	1,400	5,909	Jamaica Water Supply Co.	48, 49
New Hyde Park	40A	1-2	M	448	1,200	5,909	Jamaica Water Supply Co.	48, 49
New Hyde Park	57	1-2	M	340	1,200	5,909	Jamaica Water Supply Co.	48, 49
New Hyde Park	57A	1-2	M	440	1,200	5,909	Jamaica Water Supply Co.	48, 49

STAR CARTING
GARDEN CITY PARK, NEW YORK
PUBLIC DRINKING WATER SUPPLY DATA (4-MILE RADIUS) BY AQUIFER

Municipality	Well No./ Name	Ring	Geol. Form.	Depth (Feet)	Prod. (GPM)	Population Served [b]	Well Owner	Source Reference
Williston Park	3	1-2	M	338	1,000	1,875	Village of Williston Park	37, 59
Williston Park	4	1-2	M	400	1,300	1,875	Village of Williston Park	37, 59
				Subtotal 1-2 mi.		**86,595**		
Albertson	1	2-3	M	355	1,050	2,700	Albertson WD	37, 40
Albertson	2	2-3	M	455	1,000	2,700	Albertson WD	37, 40
Albertson	3	2-3	M	430	1,000	2,700	Albertson WD	37, 40
Albertson	4	2-3	M	370	1,200	2,700	Albertson WD	37, 40
Albertson	5	2-3	M	415	1,200	2,700	Albertson WD	37, 40
Elmont	44A	2-3	M	331	1,600	5,909	Jamaica Water Supply Co.	48, 49
Elmont	44C	2-3	M	344	1,600	5,909	Jamaica Water Supply Co.	48, 49
Franklin Square	4	2-3	M	491	1,400	4,000	Franklin Sq. WD	37, 42
Franklin Square	5	2-3	M	486	1,400	4,000	Franklin Sq. WD	37, 42
Garden City	10	2-3	M	422	1,403	2,300	Inc. Village of Garden City	44
Garden City	11	2-3	M	415	1,403	2,300	Inc. Village of Garden City	44
Garden City	15	2-3	M	545	1,382	2,300	Inc. Village of Garden City	44
Garden City	16	2-3	M	575	1,361	2,300	Inc. Village of Garden City	44
Lake Success	N3905	2-3	M	254	[a]	3,000	Manhasset-Lakevill WD	37, 52, 53
Lake Success	N4243	2-3	M	255	[a]	3,000	Manhasset-Lakevill WD	37, 52, 53
Lake Success	N5710	2-3	M	385	[a]	3,000	Manhasset-Lakevill WD	37, 52, 53
Mineola	5	2-3	M	461	833	3,500	Mineola Water Dept.	37, 54
Mineola	6	2-3	M	463	972	3,500	Mineola Water Dept.	37, 54
North Hills	N7126	2-3	M	261	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
North Hills	N7551	2-3	M	465	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
North Hills	N7552	2-3	M	455	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
North Hills	N7651	2-3	M	408	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
North Hills	N7892	2-3	M	455	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
North Hills	N10889	2-3	M	452	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
North Hills	N11509	2-3	M	?	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
West Hempstead	7	2-3	M	510	1,083	3,200	West Hempstead WD	37, 58
Williston Park	1	2-3	M	380	400	1,875	Village of Williston Park	37, 59
Williston Park	2	2-3	M	376	1,300	1,875	Village of Williston Park	37, 59
				Subtotal 2-3 mi.		**86,468**		
Carle Place	2	3-4	M	510	1,000	2,250	Carle Place WD	37, 41
Carle Place	3	3-4	M	359	1,388	2,250	Carle Place WD	37, 41
Carle Place	4	3-4	M	353	1,200	2,250	Carle Place WD	37, 41
Carle Place	5	3-4	M	440	1,200	2,250	Carle Place WD	37, 41
Elmont	15A	3-4	M	420	1,000	5,909	Jamaica Water Supply Co.	48, 49
Elmont	15B	3-4	M	420	1,380	5,909	Jamaica Water Supply Co.	48, 49
Elmont	15C	3-4	M	440	1,380	5,909	Jamaica Water Supply Co.	48, 49
Elmont	15E	3-4	M	450	1,380	5,909	Jamaica Water Supply Co.	48, 49
Elmont	28A	3-4	M	508	900	5,909	Jamaica Water Supply Co.	48, 49
Franklin Square	3	3-4	M	443	1,200	4,000	Franklin Sq. WD	37, 42
Franklin Square	30	3-4	M	516	1,200	5,909	Jamaica Water Supply Co.	48, 49
Hempstead, Town	N9521	3-4	M	603	1,290	376	Town of Hemptead Water	37, 46
Hempstead, Village	1R	3-4	M	365	1,000	5,556	Inc. Village of Hempstead	37, 47
Hempstead, Village	2	3-4	M	420	1,200	5,556	Inc. Village of Hempstead	37, 47

STAR CARTING
GARDEN CITY PARK, NEW YORK
PUBLIC DRINKING WATER SUPPLY DATA (4-MILE RADIUS) BY AQUIFER

Municipality	Well No./ Name	Ring	Geol. Form.	Depth (Feet)	Prod. (GPM)	Population Served [b]	Well Owner	Source Reference
Hempstead, Village	3	3-4	M	489	1,200	5,556	Inc. Village of Hempstead	37, 47
Hempstead, Village	4	3-4	M	416	1,000	5,556	Inc. Village of Hempstead	37, 47
Hempstead, Village	5	3-4	M	416	1,000	5,556	Inc. Village of Hempstead	37, 47
Hempstead, Village	6	3-4	M	407	1,000	5,556	Inc. Village of Hempstead	37, 47
Hempstead, Village	7	3-4	M	504	1,200	5,556	Inc. Village of Hempstead	37, 47
Hempstead, Village	8	3-4	M	449	950	5,556	Inc. Village of Hempstead	37, 47
Hempstead, Village	9	3-4	M	515	1,300	5,556	Inc. Village of Hempstead	37, 47
Lake Success	N5099	3-4	M	399	[a]	3,000	Manhasset-Lakevill WD	37, 52, 53
Lakeview	Cl 3-1	3-4	M	530	1,200	6,053	Long Island Water Co.	37, 50, 51
Lakeview	Cl 3-2	3-4	M	178	750	6,053	Long Island Water Co.	37, 50, 51
No. Valley Stream	34	3-4	M	505	1,700	5,909	Jamaica Water Supply Co.	48, 49
North Hills	N1044	3-4	M	408	[a]	3,000	Manhasset-Lakeville WD	37, 52, 53
Old Westbury	2	3-4	M	500	550	600	Village of Old Westbury	37, 55
Queens Village	21	3-4	M	335	1,382	6,047	Jamaica Water Supply Co.	48, 49
Queens Village	21A	3-4	M	346	1,200	6,047	Jamaica Water Supply Co.	48, 49
Queens Village	39A	3-4	M	225	520	6,047	Jamaica Water Supply Co.	48, 49
Roslyn	N2400	3-4	M	399	980	5,667	Roslyn WD	37, 56, 57
Roslyn	N4623	3-4	M	503	1,100	5,667	Roslyn WD	37, 56, 57
Roslyn	N8010	3-4	M	448	1,200	5,667	Roslyn WD	37, 56, 57
West Hempstead	1	3-4	M	183	736	3,200	West Hempstead WD	37, 58
West Hempstead	2	3-4	M	193	757	3,200	West Hempstead WD	37, 58
West Hempstead	3	3-4	M	178	1,000	3,200	West Hempstead WD	37, 58
West Hempstead	4	3-4	M	160	1,049	3,200	West Hempstead WD	37, 58
West Hempstead	5	3-4	M	204	1,097	3,200	West Hempstead WD	37, 58
West Hempstead	6	3-4	M	515	861	3,200	West Hempstead WD	37, 58
West Hempstead	8	3-4	M	601	1,319	3,200	West Hempstead WD	37, 58
West Hempstead	9	3-4	M	605	1,382	3,200	West Hempstead WD	37, 58
West Hempstead	10	3-4	M	593	1,382	3,200	West Hempstead WD	37, 58
				Subtotal 3-4 mi.		**187,384**		
				Subtotal Magoth		**369,857**		
				Grand Total		**414,312**		

[a] No one well provides greater than 40% of total production.

[b] Population for each municipality, district or company calculated as follows:

Albertson WD -	13,500	people/ 5 wells =2,700
Carle Place WD	9,000	people/ 4 wells = 2,2250
Franklin Square WD	20,000	people/ 5 wells = 4,000
Inc. Village of Garden City -	23,000	people/ 10 wells = 2,300
Garden City Park WD -	21,000	people/ 6 wells = 3,500
Town of Hempstead Water Department -	376	people/ 1 well = 376
Inc. Village of Hempstead -	50,000	people/ 9 wells = 5,556
Jamaica Water Supply Co. (Nassau Co.) -	130,000	people/ 22 wells = 5,905
Jamaica Water Supply Co. (Queens Co.) -	520,000	people x 0.5 supplied by well water/ 43 wells = 6,047
Long Island Water Corporation -	230,000	people/ 38 wells = 6,053
Manhassest-Lakeville WD -	45,000	people/ 15 wells = 3,000

STAR CARTING
GARDEN CITY PARK, NEW YORK
PUBLIC DRINKING WATER SUPPLY DATA (4-MILE RADIUS) BY AQUIFER

Municipality	Well No./ Name	Ring	Geol. Form.	Depth (Feet)	Prod. (GPM)	Population Served [b]	Well Owner	Source Reference
[b] continued								
Inc. Village of Mineola					21,000	people/ 16 wells = 3,500		
Inc. Village of Old Westbury					3,000	people/ 5 wells = 600		
Roslyn WD -					17,000	people/ 3 wells = 5,667		
West Hemstead-Hempstead Gardens WD -					32,000	people/ 10 wells = 3,200		
Inc. Village of Williston Park -					7,500	people/ 4 wells = 1,875		

STAR CARTING CO.
94 DENTON AVE.
GARDEN CITY, NEW YORK
GROUDWATER SUPPLY POPULATION DATA (4-MILE RADIUS)

TDL Ring (miles)	Private Well Population	Public Well Population	Private Glacial Population[a]	Public Glacial Population	Total Glacial Population	Private Magothy Population[b]	Public Magothy Population[c]	Total Magothy Population	Public Lloyd Population	Total Groundwater Population[d]	Total Resident Population
0 - 0.25	4	5,909	0	0	0	4	5,909	5,913	0	5,913	1,092
0.25 - 0.5	42	0	0	0	0	42	0	42	0	42	4,570
0.5 - 1	30	3,500	0	0	0	30	3,500	3,530	0	3,530	18,459
1 - 2	161	107,323	0	11,818	11,818	161	**86,596**	86,757	8,909	107,484	71,910
2 - 3	143	104,286	32	11,818	11,850	112	86,468	86,580	6,000	104,429	111,651
3 - 4	202	193,294	40	5,909	5,949	162	**187,385**	187,547	0	193,496	147,584
Total	582	414,312	72	29,545	29,617	510	369,858	370,368	14,909	414,894	355,267

[a] Private Glacial Population calculated based on percent of dug private wells (2-3 mi. =22%; 3-4 mi. = 20%)

[b] Private Magothy Population calculated based on percent of drilled private wells (0-1/4 mi. = 100%, 1/4-1/2 mi. = 100%, 1/2-1 mi. = 100%, 1-2 mi. = 100%, 2-3 mi. = 78%; 3-4 mi. = 80%)

[c] Bolded numbers rounded up to the nearest whole digit

[d] Total Groundwater Population = Total Glacial + Total Magothy + Total Lloyd Populations

Reference 70
Page 5 of 5