

BROWNFIELD CLEANUP PROGRAM

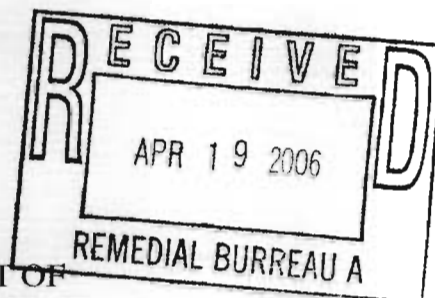
SITE INVESTIGATION & INTERIM REMEDIAL MEASURE WORK PLAN

FOR

48 SEWELL STREET, LLC.

Site No.: C130143

Index No.: W1-1073-05-08



PREPARED FOR
NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
625 BROADWAY
ALBANY, NEW YORK 12233-7016



PREPARED BY



BERNINGER ENVIRONMENTAL, INC.

APRIL 2006

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1.0 INTRODUCTION

This Site Investigation and Interim Remedial Measure (IRM) Work Plan (Work Plan) has been developed pursuant to the requirements of an executed Brownfield Cleanup Agreement (February 27, 2006) between the New York State Department of Environmental Conservation, Division of Environmental Remediation (DER), and 48 Sewell Street, LLC, the Participant. The site is located at 48 Sewell Street, Incorporated Village of Hempstead, New York (see Figures 1-3), fully described as Section 35 Block 638 Lots 21 thru 28, inclusive. A metes and bounds description of Section 35, Block 638 Lots 21-28 is included in Appendix A.

A Site Investigation Work Plan is directed when available data collected by previous investigations demonstrates, and the NYSDEC concludes, that contamination is present at the site. However, predicated on the fact that extensive delineation of the subsurface conditions has been performed, an IRM (soil removal) is proposed for implementation at this site.

1.1 Purpose

The purpose of a site investigation is to:

- Determine the nature and delineate the areal and vertical extent of contamination in all media for each area of potential environmental concern or that emanating from the site;
- Delineate the surface and subsurface environmental media, including topography and depth to groundwater;
- Identify the source(s) of contamination, migration paths, and actual or potential receptors of contamination on or through air, soil, sediment, groundwater, surface water, utilities, and structures at the site without regard to property boundaries;
- Collect and evaluate all necessary data to evaluate the actual and potential impact to public health and the environment;
- Collect data to facilitate selection and design of remedial action alternatives; and
- Identify collected data needed for monitoring natural attenuation, potential feasible cleanup technologies and presumptive remedies.

An IRM is proposed based upon:

- Sufficient delineation of site conditions has been completed; and
- the goal of mitigating and/or preventing potential environmental risks.

2.0 SITE HISTORY

2.1 Physical Site Description

Site Name: (Former) Husslein Plating Corporation and (former) Semke Bus Garage

Owner: 48 Sewell Street, LLC

Location: 48 Sewell Street, Inc. Village Hempstead, New York

Latitude 40° 42' 17.72" N, Longitude 73° 37' 3.504" W

Brownfield Cleanup Agreement: Site No.: C130143

Index No.: W1-1073-05-08

2.2 Site Description, History of Ownership and Land Use

The subject property is a former plating facility located at 48 Sewell Street, Village of Hempstead, New York. It is situated on the southeast corner of the intersection formed by Sewell and Mirschel Streets in the Incorporated Village of Hempstead. The Nassau County Tax Map Designation is Section 35 Block 638 Lots 21 thru 28, inclusive. (See Figure 2). The site is part of an EN-Zone and is located within the County of Nassau, Town of Hempstead, Census Tract 4067, Block Group 3 and Block 3008. The approximately 15,000 square foot property currently consists of a concrete paved lot with restricted access.

This parcel was occupied as Husslein Plating Corp. from 1972 to 1995. Prior historical use includes a suburban bus garage (Semke Bus) from on or about 1945 to 1972. Currently the site is essentially vacant as it is "occupied" by a tenant who only uses it for equipment storage. 48 Sewell Street, LLC now owns the subject property. The historic record of use was derived from records obtained from the Nassau County Department of Health, NC Tax Assessor, NC Fire Marshal and from an interview with past employees.

The specific activities that were performed at the subject property during the years 1972 to 1995 as part of the Husslein Plating Corp. operations are as follows (see documentation in Appendix B). The primary use of the property was for the straightening and plating of steel automobile bumpers. According to a historic schematic (see Figures 4 to 5) that depicts the operations and land use at the

subject parcel, the eastern 2/3rd of the property was used for office space and warehousing/storage only. A separate municipal wastewater sewer connection was present that served this portion of the property. Sanitary flow was noted to be in the order of 600 gallons per day (gpd) and discharges were to a separate wastewater line depicted at the northeast corner of the property. The remaining western portion of the property was used as the shop area and contained the holding tanks for the plating line.(see Figures 4 to5).

The property was confirmed to be connected to a municipal sewer at the time of building construction in 1945. As part of the Husslein Plating Corp. facility operations, a permit was obtained from the Nassau County Department of Public Works (DPW) and the Village of Hempstead for the use of the municipal sewer for discharges (e.g., sewer use discharge permit identified as ID# 22109903). This was allowable as an industrial pretreatment program was in place, that treated wastewater prior to discharge into the sewer, via two treatment pits located at the southwest corner of the subject property. The wastewater permit indicated that the “potential” for discharges into the municipal sewer system included the following: acid/alkali, chromium, nickel, alkaline detergents and dissolved base material (iron) through rinse waters. Documentation also reflects that approximately 60-75 auto bumpers were plated during each four day work week.

Other permits issued for the facility included an EPA ID# (NYD002052751) for the off-site disposal of generated waste materials, an NYSDEC air discharge permit, and an NCDH permit for the use and maintenance of at least 16 above ground storage/treatment tanks under Facility ID No. 000224. The processing/plating of bumpers utilized the following chemistry: proprietary additives, caustic cleaners, luma chrome, nickel chloride, nickel sulfate, sodium bisulfate, sulfuric acid, hydrochloric acid, and boric acid. Makeup water was derived from municipal water (Village of Hempstead) and a small private well (since abandoned).

Records indicated that the plating department rinsewaters contributed approximately 9,000 gpd into the municipal sewer system. Detergent discharges accounted for about 100 gpd, evaporation for about 300-500 gpd, and boiler makeup water was annotated as 300-500 gpd. Historic concentrations

of pertinent wastewater characteristics were listed as the following: chromium (total and hexavalent) from 1.9 to 0.46 mg/L, respectively; iron (0.56 mg/L) and nickel (0.55 mg/L).

Several fires occurred at the site. A fire in September 1995 resulted in a release of plating solutions (Spill 95-07338). The New York State Department of Environmental Conservation (the "Department") determined that this release affected local soils. According to the Department records, the 1995 incident released an estimated 400 gallons of nickel plating solution to the soils located proximate to the former plating facility's exterior western wall. Additionally, the Department noted puddling of liquid within the facility in and around the plating firm's floor drain system. The pooled liquids were vacuumed up and removed. A complete record of the spill is provided in Appendix B, which documents the testing of soils within the spill area. Soils were promptly removed under the oversight of the Department. Supplemental testing indicated the absence of nickel and chromium above action levels and the spill deemed closed. The plating operation was in the process of winding down its business prior to the September 1995 fire. As a result of extensive construction delays, the property was untenable between 1995 to 1999. In 1999, the building was demolished as a result of extensive fire damage from a subsequent fire.

After the building was demolished, the site was put up for sale. In or about 2001, a consultant retained by a potential purchaser conducted Phase I and Phase II Environmental Assessments. Subsequently, follow up subsurface testing was done. As part of a recent evaluation of the property for tax certiorari purposes, supplemental analysis for Toxic Compound Leachate Procedure (TCLP) protocol (soils were determined to be non-hazardous but with leachable concentrations of nickel and chromium) indicated that the site's contamination was possibly such as to warrant notifications to the Department. The NYSDEC assigned Spill Number 04-5991 to the site.

Review of the environmental data available for the site indicates that on-site soils and shallow groundwater have been impacted by heavy metals (predominately nickel and chromium). Specifically, nickel and chromium were detected in the soils mainly along the site's western 1/3; the soil data generated is extremely consistent with the known former use of the property and the location of the former plating line on the western portion. To a lesser extent, arsenic, mercury, zinc,

and copper were also found in the soils in this area. Additionally, concentrations of nickel and chromium were also found in groundwater.

While awaiting acceptance in the BCP, the Participant voluntarily initiated a preliminary groundwater treatment program in 2005 that consisted of the injection of Metal Remediation Compounds ("MRC") designed specifically for the heavy metals in question. The injection locations included the main areas known to coincide with the former plating area. An additional series of MRC injections were installed at the southwestern corner/perimeter of the subject property as a form of "linear groundwater containment barrier" to reduce concentrations of inorganic compounds in groundwater at the perimeter of the subject property. The MRC injection event was preceded by a baseline round of groundwater sampling, performed to provide current data, prior to the injection. Subsequent groundwater monitoring has been performed to provide data on the effectiveness of the preliminary groundwater treatment. A significant decrease in inorganic concentrations have been noted since treatment has been initiated. (See Section 3.0 on previous environmental assessments and Appendix B).

Under the BCP, the Participant proposes to remediate and control remaining soil and groundwater contamination. Soil remediation will consist of removal under an Interim Remedial Measure (IRM). Site groundwater contamination will be further investigated to determine the optimum control strategy.

History Ownership /Operation

Initial ownership of the subject property was by R. William Semke (deceased December 6, 1984) and George Semke, Executor of the Estate of R. William Semke and sole heir at law c/o Harran Transportation. Neither of these parties has any relationship to Applicant. Next owners were Raymond Husslein and Ludwig Husslein Jr. Raymond Husslein sold out his interest to Ludwig Husslein in 1981. Ludwig Husslein died on January 21, 2003. Applicant is an LLC whose sole member is the Estate of Ludwig Husslein Jr.

Operation of the property after initial development of the land was as Semke Transportation, followed by Husslein Plating Corp. (dissolved by proclamation December 27, 2000); no relationship to Applicant. The next operator at the subject property was Crash Parts Warehouse (dissolved by proclamation December 27, 2000); no relationship to Applicant. The next occupant was the Shannon Group Inc., (November 6, 1999 through December 10, 1999) which rented the property as a tenant for the storage of equipment and trailers. Again this tenant had no relationship to the Applicant. After this tenant, C.N.R. Refrigeration Co., Inc. (April 2000 through December 2000) used the property for the storage of trailers; again no relationship to the Applicant. Aggregates Plus, Ltd. has been a tenant from May 2004 to the present. The property is currently being used for the storage of trailers and equipment; no relationship with the Applicant.

2.3 Adjacent Property Land Use

The area immediately adjacent to the site is best described as commercial/industrial. This description applies for at least 500 feet north, east and south of the site. To the west, directly across Mirschel Street there is a grassy buffer-like area that separates the commercial/industrial area from the single-family residences located on the on-contiguous portion of Sewell Street.

North:	Directly to the north of the subject property is a former commercial/industrial facility, and partially empty lot.
South:	Directly to the south of the subject property is a commercial/industrial facility.
East:	Directly to the east of the subject property is an unoccupied lot formerly used for commercial/industrial purposes.
West:	A grassy buffer-like area is present that separates the commercial/industrial area from the single-family residences located to the west of the subject property.

2.4 Geographic Setting

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 NYS 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 the tidal area at sea level.

The 48 Sewell Street property lies in the outwash plain south of the confluence of the Harbor Hill and Ronkonkoma moraines and is within the drainage area of the south shore bays of Long Island.

2.5 Hydrogeology

A concise and accurate description of the geology, physiography and drainage of Nassau County is found in the Soil Survey of Nassau County, New York (USDA). Relevant excerpts of this study are included below.

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. 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 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. The Magothy is the primary potable water supply aquifer on Long Island.

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 Wisconsinan. 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 (Gardiner clay) containing marine fossils was deposited in the shallow coastal waters surrounding Long Island.

During the Wisconsinan 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 Wisconsinan 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.

These overlying Pleistocene deposits are referred to as the Upper Glacial aquifer, is a highly prolific aquifer and consists of three distinct units. The oldest and deepest unit is a sand and gravel layer associated with the Ronkonkoma ice sheet. After the recession of the ice sheet, sea level rose to near its' present level. During this interstadial period, marine and/or lacustrine sediments were deposited over the Ronkonkoma deposits, a clay bed at the base, separated from an upper clay bed by a band of silty, sandy beds. Overlying the clay is a terminal moraine and adjacent outwash deposits associated with the Harbor Hill ice sheet.

Direction and rate of groundwater flow are controlled by the rate and distribution of water entering and leaving the aquifer systems, the geometry of these systems, and the distribution of water transmitting and storage properties of these aquifer systems. Based upon a projection from review of Nassau County Water Table Maps, local groundwater flow direction in the shallowest aquifer (the Upper Glacial aquifer) is expected to be in the south (either southwest or southeast) dependent upon local discharge patterns to surface water headwater areas. Published literature values for estimated average hydraulic conductivity for the Upper Glacial Aquifer is 270 feet per day horizontal with rates of 27 feet per day for vertical flow.

Although the subject property is located within Hydrogeologic Zone I: Deep Flow System (Magothy Recharge Area), it is located within the southernmost limits of this zone. According to published literature, Zone I encompasses much of the residential, transport, commercial and industrial activity areas of Nassau and Suffolk Counties. Zone 1 contributes water to the middle and lower portions of the Magothy aquifer. Portions of the Glacial aquifer, and to a lesser extent, the Magothy aquifer have been contaminated by nitrates from fertilizers and on-site wastewater disposal systems and by synthetic organic chemicals from industrial and other discharges. Only a small portion of Zone I is sewered (roughly ten percent). Groundwater flow from the subject property will largely migrate into

Hydrogeologic Zone VII: South Shore Shallow Flow Discharge System. Zone VII is located south of the Magothy recharge zone on the South Shore and discharges to Nassau and western Suffolk South Shore bays where tidal exchange facilitates the dilution and dispersion of contaminants. Zone VII is a shallow flow zone, thus contamination from activities in Zone VII mainly affects the Glacial aquifer.

From inspection it is confirmed that the area encompassing the study site is highly urbanized with surrounding industrially-developed parcels. Therefore, groundwater in this area generally is vulnerable to potential contamination from this type of land use. Site specific groundwater flow established during prior environmental assessments has been confirmed to be at a depth of 13-15 feet below grade surface (bgs), to the southwest toward Hempstead Lake Park and then ultimately to the south shore of Long Island. A historic groundwater elevation and flow map is provided as Figure 6.

2.6 Topography

The subject site is located approximately 40 feet above mean sea level and the National Geodetic Vertical Datum of 1929 (USGS- Lynbrook Quadrangle - Figure 2). The land surface is relatively flat within the study area.

2.7 Water Supply Wells

Public potable water supply in the study area is provided by the Village of Hempstead through two well fields located within an approximate one mile radius, the Laurel Avenue and Clinton Street well fields (see Figure 7). The closest well field is the Laurel Avenue well field located in excess of 1,900+ ft to the southeast (crossgradient with respect to groundwater flow) of the subject property. The Clinton Street well field is more than one mile away and upgradient (north) with respect to groundwater flow. Two wells (No. 7 and 9) are in use at the Laurel Avenue well field and are screened at an approximate depth of 500 feet bgs, within the Magothy aquifer. (See Figure 7)

Based upon the above, these two wells are more than 1/3 of a mile away and cross gradient from the subject property. Furthermore, these wells are completed more than 450 feet deeper and within the

deeper, partially confined aquifer (Magothy) than the shallow groundwater impacts reported at the subject property. Therefore, a preliminary evaluation of the potential for groundwater impacts from the study property, with respect to wellhead protection and groundwater recharge areas for potable supply wells, indicates a low likelihood for impacts to public potable water supply. Additionally, a review of currently (2003) available groundwater quality data does not indicate treatment for nickel or chromium at either of these two well fields.

2.8 Drainage Pattern

There is a surface water system proximate to the study property. This is the Hempstead Lake Park drainage system located within an approximate 1/3 mile. The headwaters of this system are located within culverts closer to the subject property. Based upon an evaluation of topographic grade changes, the local surficial and hydraulic drainage pattern is likely into the drainage basin of this water body, which ultimately discharge to the areas of the south shore bays, and the Atlantic Ocean. The localized drainage is depicted on the topographic map for the site included as Figure 2.

2.9 Soils

According to the Soil Survey of Nassau County, New York, the soil on site consists of Urban land - Riverhead complex, 0 to 3 percent slopes (UrA). This unit consists of urbanized areas and very deep, well drained soils. It is on the nearly level tops of benches, plains, and broad ridges. The areas are round or irregularly shaped and range from 10 to 1,000 acres. This unit consists of about 65 percent urbanized areas, 20 percent Riverhead soils, and 15 percent other soils. The urbanized areas and Riverhead soils are so intermingled that it was not practical to map them separately.

The urbanized areas are buildings, roads, driveways, parking lots, and other manmade structures. The typical sequence, depth, and composition of the layers of the Riverhead soils are as follows: the surface layer is dark brown sandy loam to three inches; the subsoil is strong brown fine sandy loam from three to eight inches, yellowish brown fine sandy loam from eight to 17 inches, yellowish brown sandy loam from 17 to 24 inches, and brownish yellow loamy sand from 24 to 35 inches; the

substratum is brownish yellow sand from 35 to 52 inches, and brownish yellow gravelly sand from 52 to 60 inches or more.

Included with this unit in mapping are small areas of well drained Enfield soils, excessively drained Plymouth soils, and excessively drained to moderately well drained Udipsammments. The Enfield soils are in areas where the subsoil has a higher silt content than that in the Riverhead soils, and they make up about 10 percent of the unit. The Plymouth soils are in areas where the subsoil is sandy, and the Udipsammments are where sandy material has been mixed with the surface layer and subsoil. Together, those two soils make up about five percent of the unit.

Properties of the Riverhead soils include moderately rapid permeability in the surface layer and subsoil and very rapid permeability in the substratum, moderate available moisture capacity, a very strongly acid or strongly acid soil reaction throughout, slow surface runoff, a slight erosion hazard, a water table at a depth of more than six feet, and a root zone to a depth of 40 inches or more.

The areas on which there are no structures are lawns, gardens, small playgrounds, border strips along streets and sidewalks, and a few vacant lots. The soil has few limitations as a site for dwellings with or without basements and for septic effluent disposal. In areas used for septic systems however, pollution is a hazard to the groundwater because the substratum is a poor filter of effluent.

Generally, a lack of open areas in this unit prevents development of roads and streets or recreation areas. The soil has few limitations for landscaping. The included areas of Plymouth soils and Udipsammments are droughty and low in natural fertility. In these areas irrigation and fertilizers will be needed for successful establishment of lawns and shrubs. Because of the urban nature of this unit, most areas are unsuitable as habitat for wildlife other than songbirds.

2.10 Infrastructure

During an interview with one of the past employees of Husslein Plating Corp., the following site specific information regarding utilities and infrastructure relative to the subject property was established (see Figures 4 to 5). The subject property was a former plating facility operated as Husslein Plating Corp. from 1972 to 1995. Prior historical use includes a bus garage from 1945 to 1970. After demolition of the building in 1999, the property has been used for storage of miscellaneous equipment.

The property has been connected to the municipal sewer system since its development on November 8, 1945 (Permit #4730). Two separate sewer systems existed during the time of operation as Husslein Plating Corp. A sanitary sewer connection was present at the northeast corner associated with an office and storage area. An industrial discharge was permitted into a separate municipal waste connection at the southwestern corner of the subject parcel, associated with the plating wastewater treatment and discharge. Therefore, all wastewater discharges were always directed to one of the two on-site municipal connections, until the decommissioning of the facility after the fire in 1995. Two interior small diameter floor drains identified within the former concrete foundation floor reportedly were also hard-piped for discharge into one of the municipal wastewater systems. No site features were identified that drained in-situ within the building. The building occupied more than 95 percent of the footprint of the entire parcel. Only the poured concrete floor of the former building is still present at the subject parcel.

Electric and telephone service formerly entered building from above ground poles, with the exception of a large electrical pit located along Sewell Street. Natural gas is present in the street, reportedly a former site connection is present at the northeast corner (office/basement).

A former 1,000 gallon No. 2 fuel oil underground storage tank (UST) was present inside the former building entrance way on the Sewell Street side of the parcel. This UST formerly served a heating

system that was present in a limited basement structure (underlying the former office area) on the east side of the property. Evidence of remnant heating system was observed within the basement remains. The fill ports for two former gasoline USTs that were remnant site features from the former Semke operation (prior to 1972, never used by Husslein Plating) were noted to be present along the sidewalk with piping leading into the interior of the facility along Sewell Street. All three of these USTs were removed in January 2006 under the scrutiny of the NCDH and NCFM as preliminary activities to those required compliance activities under the BCP (see Section 3.0).

3.0 SUMMARY OF PAST INVESTIGATIONS

Prior environmental investigations were undertaken at the subject property in or about 2000-2001. The following investigations were performed as a result of a potential property transfer. Subsequent studies include an IRM and baseline/continued monitoring of groundwater program implemented by the Applicant in April-May 2005 while awaiting entry into the Brownfield program.

1. **Phase I Environmental Site Assessment report dated October 16, 2000 prepared by Kosuri Engineering and Consulting, P.C.**
2. **Phase II Environmental Site Assessment report- Limited Subsurface Investigation Report, dated April 9, 2001 prepared by Kosuri Engineering and Consulting, P.C. et al.**

The Phase I & II ESAs revealed that records from the NCDH and NCFM indicated that a 1995 fire had impacted the environmental condition of the property, requiring a small scale soil removal due to a partially melted wastewater holding tank. Approximately 400 gallons of dissolved nickel solution was released due to the fire. This release was apparently to the west side of the facility to an area of approximately 45 square feet, near an old bay door. At least six drums of impacted soils were removed in this area and clean confirmatory soil samples were collected in coordination with the NYSDEC. This spill was closed. The plating facility, which was in the process of winding down, was demolished subsequent to the fire.

NCDH records provide details on the prior chemical uses, storage, waste disposal and handling. These records establish site chemical use as primarily related to plating operations with the use of the following chemicals: acid, alkali, chromium, nickel and dissolved base metals such as iron. No specific site discharges were identified and the facility was noted to be connected to a municipal sewer system during all of its operational period. Permits for discharges into this system were present in Nassau County Department of Public Works/NCDH files. The Phase I identified areas of potential environmental concern and recommended Phase II testing.

The Phase II testing data (see Figure 8) indicates that limited, if any, petroleum impacts were present associated with either the out-of-service gasoline or fuel oil underground storage tanks. Little, if any, volatile organic compound (VOC) contamination was identified in site soils or on-site groundwaters. This is consistent with the documentation provided in the NCDH files relative to chemical storage. Although several VOCs were present, only one VOC (toluene at 4,519 ug/kg) was present at one sampling location, SP-9 at a concentration elevated above a regulatory guidance value at 4-6 feet below grade surface (bgs). This soil sample location was located adjacent/within one of the former floor drains. One groundwater sampling location (GWP-4) had several petroleum-related VOCs

present above their respective potable groundwater standards or guidance values (SGVs). As the location of this groundwater sample is at the southeast edge of the property, it was concluded that the source of these VOCs is originating from off-site, from farther to the northeast.

Metals (predominantly nickel, iron, manganese, and chromium with lesser presence of elevated zinc, copper, mercury and lead) were noted at five of the six of the on-site soil sampling locations from 4-6 feet bgs. Nickel and chromium were identified as the fingerprint contaminants of concern, consistent with the NCDH records on plating solutions/operations. A technical review of nickel concentrations/distributions within the Phase II data indicated that the highest concentrations are located at the SP-6 location (former drain at western portion of site); the SP-8 location (within former plating area); Pit No.1 (wastewater treatment pit for former plating area); and Pit No.2 (wastewater treatment pit for former plating area). Chromium was also reported at both pits.

One or more metals (predominantly nickel, iron, manganese, and chromium with lesser presence of elevated copper, and selenium) were noted at the groundwater sampling locations. Focusing on nickel concentrations, nickel was not present above the method detection limit at either of the two upgradient groundwater samples, indicating no off-site upgradient sources. The highest nickel concentration (121,000 ug/L) in groundwater is present at the GWP-4 location (area of former plating). Other elevated areas include GWP-5 (downgradient overall of the former plating area and Pit No. 2); and two other downgradient locations, GWP-3 and GWP-6. Elevated chromium was reported at the GWP-4 and GWP-5 locations also downgradient of former plating operations. Elevated iron was noted at all groundwater sampling locations and therefore, the regional geology likely is a contributing factor.¹ Soil data available for the pit locations was very shallow (less than three feet); no data is available as to soil or groundwater conditions at deeper depths in these areas.

The Phase II concluded that the former on-site plating operations have impacted the environmental quality (soils and groundwater) of the subject property.

3. Soil boring Investigations by Berninger Environmental Inc., in October 2003.

A soil boring program was implemented by BEI on October 15 and 16, 2003. These soil borings were performed in order to collect shallow soil samples and provide additional data on areas of the property (central and eastern portions) not previously investigated. These areas were not part of the former "wet" operations and any subsurface soil impacts present would be due to inadvertent releases that may have penetrated the concrete floor in these areas. A total of sixteen soil borings were installed within a gridded area. Sampling locations were focused on cracks in the concrete, areas of concrete degradation or the lowest lying area within each grid. Composite samples were collected from the subsurface interval deemed to be most representative of the underlying fill material/native materials and any suspect layers, based upon physical field observations.(see Figure 9).

¹ It is common to have elevated iron and manganese in groundwater on LI.

Of the sixteen soil samples analyzed for total nickel and chromium, only two exceedances of the NYSDEC RSCOs were noted. Sampling locations S-8 and S-15 reported concentrations of total nickel between 3 and 46 times the NYSDEC RSCO. These two locations are proximate to suspect site features such as the former trench drain (S-15) and a sump pit (S-8). No exceedances of the RSCO of 50 mg/kg were reported for total chromium at any of the sixteen soil samples collected and analyzed.

Three one-inch diameter piezometers were installed at the subject property (one upgradient and two downgradient to allow for a determination of localized groundwater flow direction. Groundwater elevation mapping for October 17, 2003 indicates a localized groundwater flow direction to the southwest. This is consistent with the regional groundwater flow direction. Based upon the slope of groundwater across the subject property, a horizontal groundwater flow velocity of 1.35 feet per day was calculated; comparative but slightly higher than the regionally-established groundwater flow rates for the Upper Glacial aquifer of one foot per day.

4. Soil boring Investigations by Berninger Environmental Inc., in July 2004.

A soil boring program was implemented by BEI on July 22, 2004. These soil samples were collected in order to provide disposal characterization data in support of a future planned remedial measure, in addition to a limited further delineation of concentrations of nickel and chromium in soil. A total of seven soil borings were installed within the western portion of the subject property. (See Figure 9).

A review of the TCLP concentrations for chromium indicated that none of the samples exhibited TCLP concentrations approaching the 5.0 mg/L RCRA regulatory value. As nickel is not a characteristically hazardous compound, no RCRA regulatory value exists for this compound. Therefore, based upon these data, the soils to be removed at the site are not characteristically hazardous due to elevated concentrations of chromium.

5. MRC Injection and Baseline Groundwater Sampling, Berninger Environmental Inc., in April-May 2005.

The BCP applicant had proceeded with an IRM in April-May 2005 (with prior notification to the NYSDEC and NCDH) which included the injection of Metal Remediation Compounds (MRC) into the groundwater to inhibit ion mobility of inorganic constituents (predominantly nickel and chromium) identified in site soils and groundwater at the subject property. This event was preceded by a baseline round of groundwater sampling, performed to provide current data, prior to the injection.

A 1,500 pound application of MRC was allocated based upon site specific conditions and amount of area requiring treatment in coordination with Regenesys, the manufacturer. The IRM was

implemented during April-May 2005 and included the injection of MRC into both an interior source area on-site and along the downgradient property perimeter to create a groundwater contaminant reduction flow barrier (see Figure 10) Furthermore, a low-permeability sealing material (cement) was installed in areas of open penetrations (former trench drain) within the concrete foundation at the western portion of the property to limit rainfall infiltration in these areas.

Four two-inch wells were installed on April 12, 2005 to a depth of 20 feet bgs to allow for baseline and continued groundwater sampling. The wells were sampled on April 13, 2005 and turbidity was reduced to less than 10 NTUs, using a low flow rate purge technology. Analysis of groundwater samples collected reported both chromium and nickel present at concentrations in exceedance of their respective SGVs of 0.050 mg/L and 0.10 mg/L at the three downgradient monitoring well locations. Concentrations of nickel ranged from non-detect to 31.3 mg/L at the southwest corner of the subject property. Concentrations of chromium ranged from non-detect to 1.97 mg/L at the southwest corner. The concentrations of chromium and nickel reported in groundwater at the southwest corner of the property were very similar to that reported in 2001.

Both the April 2001 and April 2005 groundwater data substantiates the presence of nickel and chromium at concentrations in excess of NYSDEC standards or guidance values. The presence of nickel and chromium are related to the elevated concentrations of these two metals in the soils contained primarily within the western portion of the subject property.

6. Continued Monitoring of Groundwater, Preferred Environmental Services/BEI September & December 2005

Continued groundwater sampling was performed to provide current data, subsequent to the MRC injection at the subject property. Baseline sampling indicated that concentrations of nickel ranged from 0.79 mg/L (upgradient) to 31.3 mg/L at the southwest corner of the subject property. Both the September and December 2005 groundwater data substantiates the significant reduction of both nickel and chromium in groundwater. A comparison of the most recent data (December 12, 2005) to the baseline data (with very similar groundwater elevations) indicated reductions in both chromium and nickel concentrations of at least 50 percent or greater. Quarterly sampling continues at the property; the next sampling round was performed on March 31, 2006.

7. Removal of Underground Storage Tanks (USTs) at 48 Sewell Street, Hempstead, Preferred Environmental Services, January 2006

On January 24, 2006, the two 1,000 gallon gasoline USTs and a 1,000 gallon fuel oil UST present at the 48 Sewell Street property were successfully removed by AARCO Environmental Service Corp. with field oversight by Preferred Environmental Services. (See Figures 12 and 13). Upon the removal of the three USTs, the soils within the excavations were evaluated by the Preferred on-site hydrogeologist, as well as representatives of the NCDH and Nassau County Fire Marshal (NCFM).

As no evidence of gasoline or fuel oil impacts were observed within the excavations, same were backfilled with clean fill materials and concrete surfaces were restored. No spill notification was required. Preferred collected endpoint samples within the confines of the former tank graves and submitted same for laboratory analysis. Analysis of confirmatory endpoint soil samples collected from the two excavations did not reveal evidence of gasoline or fuel oil impacts. Tank closure was successfully achieved.

4.0 EXPOSURE ASSESSMENT

To perform a qualitative exposure assessment, site conditions are characterized to evaluate whether a site poses an existing or potential hazard to the exposed or potentially exposed population. Site characterization involves a review of sampling data for exposed media and an evaluation of the physical conditions of the contaminant sources or physical hazards near the site which may pose an additional health risk to the community.

The reported concentrations of inorganic compounds such as nickel and chromium at the site were evaluated in a three-step process. First, an analysis was conducted to identify potential exposure pathways. Second, concentrations of the chemicals of concern were assigned to the exposure points for each pathway based on the site data. Third, the exposure point concentrations were compared to acceptable levels to determine if those concentrations could pose an unacceptable risk to human health.

4.1 Exposure Pathways Analysis

An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has five elements: (1) a contaminant source; (2) contaminant release and transport mechanisms; (3) a point of exposure; (4) a route of exposure; and (5) a receptor population.

An exposure pathway is complete when all five elements of an exposure pathway are documented; a potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway is not documented. Any exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future. Potential exposure pathways for inorganic compounds in the soils and groundwater can include: 1) soil contact via ingestion or dermal; 2) ingestion of groundwater; and 3) discharge of groundwater to surface water with

subsequent exposures. As these are inorganic compounds (predominarily nickel and chromium) with limited (if any) volatilization potential, inhalation and volatilization from groundwater were not included as potential exposure pathways. Potential receptors for each of these exposure pathways are identified below.

4.1.1 *Soil Contact Exposure Pathway*

The previous investigations identified actionable concentrations of the inorganic compounds of concern in the shallow and subsurface soils at the western 1/3 of the subject property and bottom sediments inside former isolated structures such as former floor drains or trench drains or pits. The poured concrete floor within the former building footprint that occupied more than 95 percent of the subject property has been maintained as the land surface covering. Any holes, drains, pits, trench drain openings, etc. were filled in with concrete in 2005 to mitigate a pathway for future rainfall infiltration. This concrete covering provides mitigation of the soil contact pathway at the subject property until remedial measures can be implemented. No degree of significant contact with the shallow or subsurface site soils can occur under current conditions. An IRM is proposed for immediate implementation that will serve to mitigate the elevated concentrations of inorganic compounds in shallow and subsurface soils to a condition consistent with an allowed future restricted use. The site restoration will include any required engineering controls; therefore, no soil contact exposure pathways are projected for the future, with the exception of the remediation process. Remediation will include on-site and community air monitoring with the utilization of proper engineering controls to mitigate any potential exposure pathways.

As the remedial program will likely require a deed restriction relative to the restricted use, it is anticipated that no alterations will be allowable relative to the building or infrastructure that would enable an exposure to any subgrade remaining impacted soils. Therefore, this exposure pathway is not considered to be a completed pathway.

The transport mechanism of contaminants through soil is gravity drainage near the release source

until contact with groundwater. Contaminant transport by advection and diffusion in groundwater can cause additional soil contamination on and off site. This is limited however, to the zone of soil in contact with groundwater. Unless construction excavation to groundwater occurs, the soil contact exposure will not be a completed exposure pathway. Therefore, the only potential exposure pathway associated with the previously identified inorganic compounds in shallow and subgrade soils is via the groundwater migration pathway. As these compounds are not volatile, no volatilization will occur from groundwater through the soil.

4.1.2 *Groundwater Ingestion Pathway*

Previous research of the study area determined that potable water is supplied to the area by the Village of Hempstead through two well fields located within an approximate one mile radius, the Laurel Avenue and Clinton Street well fields. The closest well field is the Laurel Avenue well field located in excess of 1,900+ ft to the southeast (crossgradient with respect to groundwater flow) of the subject property. Two wells (No.7 and 9) are in use at the Laurel Avenue well field and are screened at an approximate depth of 500 feet bgs, within the Magothy aquifer.

Based upon the above, these two wells are more than 1/3 of a mile away and cross gradient from the subject property. Furthermore, these wells are completed more than 450 feet deeper and within the deeper, partially confined aquifer (Magothy) than the shallow groundwater impacts reported at the subject property. Therefore, a preliminary evaluation of the potential for groundwater impacts from the study property, with respect to wellhead protection and groundwater recharge areas for potable supply wells, indicates a low likelihood for impacts to public potable water supply. Additionally, a review of currently (2003) available groundwater quality data does not indicate treatment for the site compounds of concern. Based on the distance to the closest well field, its location crossgradient, and depth of completion of supply wells, and absence of a record of inorganic impacts at the supply wells, the ingestion of impacted groundwater emanating from the site is unlikely. Furthermore, the subject property is situated in a heavily industrialized setting in an area of degraded water quality. Based upon the aforementioned, the potential for groundwater ingestion is not considered to be a

completed exposure pathway. This pathway will be further evaluated under the investigation process.

With regard to private potable wells, exposure to contaminated groundwater could occur. However, it must be noted that Article IV of Nassau County Sanitary Code specifically prohibits the unauthorized use of private wells for potable water supply. BEI is unaware of any private supply wells in the study area.

4.1.3 Discharge of Groundwater to Surface Water Pathway

Hempstead Lake Park water drainage area is located approximately 1/3 mile topographically downgradient. The headwaters of this system are present within culvert structures. The likelihood of impacts from groundwater emanating from the study site to aquatic life to these surface waters is very low, given the aforementioned lateral separation. Furthermore, the study site is located in an area with an overall degradation in water quality, unrelated to on-site issues. Therefore, discharge of groundwater to surface water pathway is not considered a completed exposure pathway at this time.

4.2 Exposure Assessment Summary

A qualitative exposure assessment has been performed that has not identified any completed potential exposure pathways. The potential exposure pathways that have been identified will be re-evaluated at the completion of the work plan investigation and IRM.

5.0 WORK PLAN OBJECTIVES

The objective of this work plan is to provide detailed specifications for the performance of an IRM that consists of soil removal (with the collection and analysis of endpoint samples) additional delineation of soil (if required) and groundwater conditions to determine the horizontal and vertical extent of metal contamination to the satisfaction of the DER. BEI proposes to utilize a dynamic work plan to direct and expedite the IRM/investigation. In addition, the focus will include continued efforts to identify actual or potential impacts to sensitive receptors.

5.1 Potential Environmental Concerns

Based on prior studies, it has been well defined that the approximate western 1/3 of the subject property possesses impacts to subgrade soils and groundwater in the form of elevated concentrations of metal compounds (predominantly nickel and chromium). The area of concern identified directly coincides with the location of the former nickel and chromium plating line (Figures 4 and 5). The highest concentrations of site-related metals were noted within two wastewater treatment pits (pits #1 and #2) located at the southwest corner of the parcel; a trench drain system and isolated floor drains interior to the former building. Several fires occurred at the property which resulted in the release of process waters, therefore it is possible that some residual contamination is associated with these wastewater excursions. Investigation and remediation were undertaken subsequent to the fires, and soil testing undertaken immediately after completion of the spill remediation reflect that nickel and chromium were within requisite guidelines.

Therefore, the focus of the investigation specified in this work plan is the remediation of known impacts to soils, and any other required investigation of on-site conditions. A Track 3 Restricted Use Commercial Soil Cleanup is proposed for this site, utilizing, as far as practical the generic restricted commercial soil cleanup objectives for the protection of human health. An IRM is proposed to address source removal. This removal will be in accordance with the Soil Cleanup

objectives set forth in Table 375-3.8(b) (see below), if practicable. To the extent that these objectives can not be practicably obtained, contaminant-specific soil cleanup objectives with criteria set forth for Track 3 will be proposed.

Pertinent Metal Contaminant Text 375-3.8(b)	Restricted Commercial - Track 2 (mg/kg)
Arsenic	16
Cadmium	9.3
Chromium, trivalent	1,500
Chromium, hexavalent	400
Lead	1,000
Manganese	15,000
Mercury (elemental)	2.8
Nickel	310
Zinc	89,000

5.2 Scope of Work

BEI has defined the scope of the work efforts into specific tasks. These tasks are outlined as follows:

TASK 1- SUPPLEMENTAL SOIL INVESTIGATION

As the areas of soil contamination will be addressed during an IRM (Task 2), any required supplemental soil sampling performed during this task will be biased toward the remaining areas of the subject property. The main focus of the soil investigation will be locations east of the known soil impacts within former plating area (See Figure 9). Any compliant soil samples collected within the area of soil impacts may be used as "pre-confirmatory endpoint samples." If any previously undetermined site features of concern are discovered, the sampling plan will be modified to investigate these areas.

Purpose: The main objective for any supplemental soil sampling would be to facilitate the IRM and/or confirm absence of metal impacts on the eastern portion of the study area.

Specifications: BEI owns and operates a Geoprobe model 540U direct push sampling rig mounted in a four-wheel drive truck for the collection of soil, soil gas and groundwater samples. A two or four-foot long soil sampling tool is attached to the drive rods for the collection of continuous undisturbed soil samples. The sample will be protected in a PVC liner that prevents the disturbance of soils prior to field analysis. Each sample will be opened and logged to document subsurface conditions including soil types and description of non-soil materials, field instrument measurements and depth to groundwater, when encountered. There will be additional documentation, if present, of soil mottling, presence of odor, vapors, and soil discoloration. A portion of each sample will be placed in a re-sealable plastic bag and screened for total volatile organic compounds by a Photoionizer detector (PID) or equivalent.² If field measurement readings are detected above background, the coring will be extended until background readings are consistent with ambient air or soil concentrations are achieved or groundwater is encountered. Between each sampling event all equipment will be decontaminated following the protocol outlined in Section 6.0.

To determine the horizontal extent of the contamination, supplemental sampling will be conducted

²No VOC use at the site is known; VOC monitoring will be performed for field screening and health and safety reasons.

outside the known area of concern (Figure 12). Several off-site sampling locations are expected within the Village right-of-way which will require securing access agreements. The sample with any evidence of suspect conditions will be recorded at each boring and will be appropriately containerized at the time of its collection and immediately maintained in an ice packed cooler.

Upon completion of each day's sample collection, these samples will be transported under strict chain-of-custody to a NYSDOH-ELAP certified laboratory for Target Analyte List (TAL) total metal analysis inclusive of hexavalent chromium by EPA Method 6010B/7471 and SW-7196A series. The borings will be abandoned by sand and bentonite grout to grade.

TASK 2 - INTERIM REMEDIAL MEASURE

As discussed in the Draft BCP Program Guide, it is appropriate to conduct an IRM while the RI is being conducted. According to the NYSDEC, an IRM is *"a discrete set of activities to address both time critical (emergency response actions,) and non-time critical site conditions, which can be undertaken without extensive remedial investigation and evaluation, to prevent, mitigate or remedy environmental damage or the consequences of environmental damage attributable to a site."* The purpose of an IRM *"is to lessen obvious risks to the environment and/or public health from site impacts."*

Based upon the known site conditions, BEI believes that the implementation of an IRM to address impacted on-site unsaturated fill or soil material, former floor drain bottom sediments, wastewater pits and trench drain is appropriate for the subject property. Based upon the known site conditions, BEI projects the following scope of work to excavate, transport and dispose of impacted on-site media.

- Collection of supplemental soil samples for disposal characterization purposes (if any);
- Excavation of known impacted soil areas; perform in a phased approach, with interim sampling for total nickel and chromium (only), to confirm required excavation depth and widths; and

- Collection of endpoint soil samples during phases of excavation to confirm the achievement of soil cleanup objectives selected for the subject property.

Material Excavation Process

The site is underlain by impacted soils that include some quantity of fill and underlying native soils. There are also several former discrete site features such as a former trench drain, former floor drains, and wastewater treatment pits that will be specifically focused on during remediation activities. The IRM proposed for the subject property is the excavation and off-site disposal of:

The impacted fill/soil material identified at the subject property present at depths ranging from grade (under concrete floor of the former building) to a depth required to achieve a Track 3 - Restricted Use Commercial Soil Cleanup Objectives within the western portion of the subject property.

- Any impacted bottom sediments within on-site discrete former features: and
- Any additional impacted native soils identified under the above criteria during the supplemental testing program.

Based upon known conditions, BEI believes that the most efficacious method to remove impacted soil/fill material from the subject property is via excavation and off-site disposal. Impacted soil fill materials will be excavated utilizing a backhoe/excavator until soil cleanup objectives are achieved. In areas (e.g., sidewalk areas) if required, sheet piles will be utilized to stabilize the walls of excavations. The necessity of the sheet pilings will be determined by a New York State Professional Engineer. Waste characterization analysis has already been performed which confirms that the waste material does not require disposal as a hazardous waste. Supplemental analysis will be performed as required. Prior testing of soils at the property has confirmed that the success of the IRM will be based on the reduction of total nickel and chromium. To that end, any interim sampling performed to further delineate the required depth of excavation will include only total nickel and chromium. Based upon the existing testing data, the projected depths of excavation are shown on Figure 11, based upon a projected Track 3, Restricted Use Commercial Soil Cleanup Objective Track for nickel (310 mg/kg) and chromium (trivalent-1,500 mg/kg and hexavalent- 400 mg/kg). Utilizing these restricted

commercial soil cleanup objectives is based upon the presumption of a future on-site groundwater remedy or control.

The material excavated will be stockpiled temporarily on-site atop of and covered by 10-mil plastic sheeting to prevent any off-site migration of particulates. Arrangements will be made to load material out on a timely basis. Due to the size constraints of the subject property, materials will be alternatively stockpiled or loaded out frequently for transport and disposal at an appropriately licensed disposal facility.³ Waste manifest documentation will be collected from each driver by the on-site BEI representative, as well as from the disposal facility to document waste disposal paths. Based upon prior site data, a preliminary estimate of between 2500-3000 cubic yards (cy) of impacted on-site material will require disposal. Endpoint soil samples will be collected at various stages in order to provide a definitive excavation horizon and achieve compliance with the established soil cleanup track.

The excavation will be backfilled with clean fill material as necessary to restore to prior grade. The perimeter of the subject property will remain secured by existing galvanized steel and re-enforced chain-link fencing to provide site security.

Engineering Controls

The following provides a summary of the engineering controls which will be maintained during the conduct of the IRM field activities, as necessary.

Dust Monitoring/Suppression

Attempts will be made to minimize the generation of fugitive dust during the excavation, loading and transportation of impacted fill/soil material. Fugitive dust levels will be monitored at several locations at the property in accordance with the project Community Air Monitoring Plan (CAMP) to ensure that dust is not generated from site activities exceeding acceptable levels, in order to protect on-site personnel and the surrounding community. Should dust levels approach actionable levels,

³ The NYSDEC will be provided copies of all waste characterization analysis and the proposed disposal facilities.

suppression of same will be achieved by the application of water from a water truck. In order to prevent contaminants from leaching from the excavated fill/soil materials which were wetted down as a dust-suppression measure, additional plastic sheeting will be utilized as necessary.

Fencing

The subject property is currently enclosed by a galvanized fence equipped with a locked gate. During the IRM activities, this fence will be utilized to secure the site from outside intrusions. Appropriate repairs and alterations will be made to the existing fence to ensure the safety of on-site workers and surrounding community. The fence will be maintained during construction activities (e.g. post-IRM activities).

TASK 3- MONITORING WELL INSTALLATION / GROUNDWATER FLOW

Purpose: To reconfirm the direction of groundwater flow and other aquifer characteristics beneath the site, additional monitoring wells will be installed to supplement whichever existing groundwater monitoring wells can be maintained, given the IRM to be completed, it is anticipated that one or more of the existing wells may be destroyed during the IRM. Ultimately at least six monitoring wells will be utilized at the subject property.

Specifications: With a Geoprobe drilling system, BEI will install any additional required two-inch diameter groundwater monitoring wells. Depth to groundwater is estimated at 13+ feet below grade. The final depth of each well will be approximately 20 feet, dependent upon depth to groundwater. Well construction will consist of a minimum of 10 feet of 2-inch diameter, schedule 40, 0.020-inch slotted well screen set approximately three feet above and seven feet below the water table. 2-inch diameter, schedule 40 flush joint threaded riser pipe will finish the well to grade. A 5-inch cast iron manhole and cover will be cemented in place to complete the installation. Drill cuttings will be containerized on-site in a 55-gallon drum until sampling and disposal arrangements are completed, if drilling is performed in an area of known soil contamination.

Upon completion of the installation of the wells, the location and casing elevations will be

determined by a New York state-licensed surveyor. Depth to groundwater will be measured from each well to the nearest 0.01 foot using a sonic interface probe. The collected data will be used to generate updated groundwater gradient map indicating the direction of groundwater flow. Figure 13 indicates proposed locations of the monitoring well network. The actual location of each monitoring well will be determined based on site constraints.

TASK 4- GROUNDWATER INVESTIGATION

Groundwater samples will be collected using a Geoprobe direct push sampling rig. Using the groundwater flow direction previously determined to be to the southwest, approximately 10 borings locations will be extended to groundwater. Several off-site sampling locations are expected within the Village of Hempstead right-of-way which will require securing access agreements. Sampling will be performed vertically and laterally until the metal impacts are further defined.

Purpose: The nature and extent of groundwater impacts from impacted site soils have not been completely defined. This groundwater investigation will delineate laterally and vertically the extent of any contaminant plume, and allow for the further identification of actual or potential impacts to sensitive receptors. The investigation will also collect the necessary data to evaluate the feasibility of Monitored Natural Attenuation (MNA), potential cleanup technologies and presumptive remedies.

Specifications: With the Geoprobe rig equipped with a mill-slotted well point sampling tool or equivalent, groundwater samples will be collected at the water table (approximately 13- 15 ft below grade) and continue vertically for two more 15+ foot intervals until an approximate total depth of 45+ feet bgs. Every effort will be undertaken to reduce turbidity to less than 50 NTUs (or less) during purging to ensure a representative groundwater sample. In the event that the desired turbidity level is not achievable relative to temporary well samples or others, total and dissolved TAL groundwater samples will be collected for laboratory analysis. Upon completion, the borings will be abandoned by sand and bentonite grout to grade. Sample collection procedure, quality assurance/quality control, and equipment decontamination procedures are discussed in Section 6.0.

Figures 12 and 13 provides the location of combined soil borings/temporary groundwater monitoring locations and the localized groundwater flow direction. The actual number and location of each sampling point will be determined based on site constraints or field analytical data. Upon completion of each day's sample collection, these samples will be transported under strict chain-of-custody to an NYSDOH-ELAP certified laboratory for Target Analyte List (TAL) total metal analysis and hexavalent chromium by EPA Method 6010B/7471 and SW-7196A series. The borings will be abandoned by sand and bentonite grout to grade.

5.3 PROJECT SCHEDULE

Within 30 days of the approval of the BCP IRM/Investigation Plan, BEI will begin performing Task 1- Soil Investigation in order to confirm the requirements for Task 2-IRM, pending any off-site access or right-of-way agreements. Additionally, any supplemental sampling required for waste characterization will also be performed. After the completion of Task 1, the final areas of soil excavation will be determined and the IRM will be implemented within 60 days thereof. It is anticipated that the IRM will take up to 30 days to complete.

After the completion of the IRM and the restoration of the land surface, Tasks 3 and 4 will be implemented concurrently. These activities are anticipated to take less than one month to complete. Receipt of certified laboratory data in these tasks will require up to 45 days; with an additional 30 days for data usability analysis. A final report will be issued within 60 days of receipt of validated testing data packages.

6.0 QUALITY ASSURANCE / QUALITY CONTROL PROCEDURES

Appropriate Quality Assurance /Quality Control (QA/QC) Procedures were developed to ensure that suitable and verifiable data results from sampling and analysis are maintained. To achieve this objective, the quality assurance procedures detailed in this section were adopted from NYSDEC, DER "Draft Technical Guidance for Site Investigation and Remediation", December, 2000 (3/26/01) and will be followed for all sampling and laboratory analysis activities.

6.1 Quality Assurance Requirements

The person responsible for conducting the investigation and/or remediation will ensure suitable and verifiable data results from sampling and analysis. To achieve this objective, the quality assurance procedures detailed in this section will be followed for all sampling and laboratory analysis activities. Quality Assurance/Quality Control procedures were developed to ensure that suitable and verifiable data will result from the prescribed sampling and analysis programs. The procedures to be implemented during the investigation are summarized below.

6.1.1 Sampling Personnel

The activities associated with the field sampling and analysis program will be performed under the supervision of a Quality Assurance Officer, in accordance with the NYSDEC, DER "Draft Technical Guidance for Site Investigation and Remediation", December, 2000 (3/26/01). The samplers assigned will possess a minimum of two or more years experience in environmental field work. Additionally, all samplers will have received the mandatory forty-hour Occupational Safety and Health Administration (OSHA) training on working with potentially hazardous materials and appropriate Hazard Communication Program and Right-To-Know training.

6.1.2 Sampling Equipment

Individual QA/QC measures will be implemented for each of the types of equipment, field screening instruments, sample containers, etc. used in the performance of the sampling program as follows:

6.1.3 Geoprobe

Prior to arrival on the subject property and between sample locations, all equipment associated with the Geoprobe drilling system will be decontaminated by a physical scrub with detergent (Alconox) and potable water solution and rinsing them with potable water of demonstrated environmental quality.

6.1.4 Glassware

All sample glassware will be "Level A" certified decontaminated-containers supplied by a NYSDOH-Certified Commercial Laboratory. Samples analyzed for media potentially containing VOCs will be placed in Teflon-lined containers. All samples (except the soil gas samples) will be preserved by cooling them to a temperature of approximately four degrees Celsius during maintenance prior to transport to laboratory.

6.1.5 Sample Documentation

To establish and maintain proper sample documentation control, the following sample identification and chain-of custody procedures will be followed:

6.1.5.1 *Sample Identification*

Sample identification will be executed by use of a sample tag, log book and chain-of-custody forms. Said documentation will provide the following information: 1) the project code; 2) the sample laboratory number; 3) the sample preservation; 4) the date the sample was secured from the source media; 5) the time the sample was secured from the source media; and 6) the person who secured the sample from the source media.

6.1.5.2 *Chain-of Custody Procedures*

Due to the evidential nature of samples, possession will be traceable from the time the samples are collected until they are received by the testing laboratory. A sample is considered under custody if it: is in a person's possession; it is in a person's view, after being in possession; if it is in a person's possession and they locked it up; or, it is in a designated secure area. When transferring custody, the individuals relinquishing and receiving the samples will sign, date and note the time on the Chain-of-Custody Form.

6.1.5.5 *Laboratory-Custody Procedures*

A designated sample custodian will accept custody of the delivered samples and verify that the information on the sample tags matches that on the Chain-of-Custody Records. Pertinent information as to delivery, pick-up, courier, etc., will be entered in the "remarks" section.

The custodian will enter the sample tag data into a bound logbook. The laboratory custodian will use the sample tag number, or assign a unique laboratory number to each sample tag, and assure that all samples will be transferred to the proper analyst or stored in the appropriate source area. The laboratory custodian will distribute samples to the appropriate analysts. Laboratory personnel will be responsible for the care and custody of samples, from the time they are received, until the sample is exhausted or returned to the sample custodian. All identifying data sheets and laboratory records will be retained as part of the permanent documentation. Samples received by the laboratory will be retained until after analysis and quality assurance checks are completed.

6.2 Soil Sample Collection

The soil sampling will be conducted using a Geoprobe direct push sampling rig or low profile rig or equivalent using a discrete sampling device. A new PVC liner will be installed into the sampling barrel between each sampling event. The equipment (drive point, barrel, subs and adaptors) will be decontaminated before each sample collection following NYSDEC Sampling Guidelines & Protocols, 1991. The cleaning procedure will include the use of a standard laboratory grade phosphate-free detergent (Alconox) followed by a municipal-supplied potable water rinse. The retrieved samples will be placed in laboratory supplied certified containers. The samples will be stored in a cooler containing ice to maintain a temperature of 4° Celsius and delivered under strict chain-of-custody to a NYSDOH ELAP-certified laboratory providing Category ASP-B deliverables, where applicable. All generated soil cuttings will be maintained in a DOT approved 55 gallon drum, if required. Upon completion of the project a soil sample from the drum(s) will be analyzed for disposal by a NYSDOH ELAP-certified laboratory.

To ensure quality control, one (1) field blank will be collected per twenty soil samples by rinsing the decontaminated field equipment with organic-free water and submitting the rinse water in standard sample containers to a certified laboratory for Target Analyte List (TAL) total metal analysis by EPA Method 6010/7471 series. One (1) Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample will be collected per twenty (20) soil samples and submitted with the rest of the samples to a certified laboratory for TAL total metals analysis by EPA Method 6010/7471 series. No trip blank samples are required for analysis in coordination with soil samples to conform with an NYSDEC ASP-B deliverable package.

6.3 Groundwater Sample Collection

The groundwater sampling will be conducted using a Geoprobe direct push sampling rig equipped with a mill-slotted well point sampling tool or equivalent device depending upon accessibility. Once the desired depth is reached, new polyethylene tubing fitted with a Tubing Check Valve System will be inserted down into the rod to the depth of the slotted point. The groundwater will then be extracted through the polyethylene tubing by a peristaltic pump until 3 to 5 times the approximate volume in the probe rod has been purged. Groundwater sampling purging will be continued until turbidity measures less than 50 NTUs prior to sampling (less than 10 NTUs will be attempted to be used as a criteria). If this

turbidity criteria cannot be achieved, then filtered and unfiltered samples will be collected for analysis for comparison.

The retrieved samples will be placed in new laboratory-supplied un-preserved 500 ml to 1 Liter plastic containers. The samples will be stored in a cooler containing ice to maintain a temperature of 4° Celsius and delivered under strict chain-of-custody to a NYSDOH ELAP-certified laboratory providing Category ASP-B deliverables. Purged development water will be contained in a DOT approved 55 gallon drum, if required. Upon completion of the project, a liquid sample from the drum(s) will be analyzed for disposal characterization by an NYSDOH ELAP-certified laboratory. If not required, same will be disposed at the wellhead.

The equipment (drive point, well point, subs and adaptors) will be decontaminated before each sample collection following NYSDEC Sampling Guidelines & Protocols, 1991. The cleaning procedure will include the use of a standard laboratory grade phosphate-free detergent (Alconox) followed by a municipal-supplied potable water rinse.

To ensure quality control to conform with an NYSDEC ASP-B deliverable package, one (1) trip blank with organic-free water will be maintained per sampling day and one (1) field blank per twenty (20) groundwater samples by rinsing the field equipment with organic-free water and submitting the rinse water in standard sample containers to a certified laboratory for TAL total metal analysis by EPA Method Series 6010/7471. One (1) Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample will be collected per twenty groundwater samples and submitted with the rest of the samples to a certified laboratory for the same analysis.

6.4 Laboratory Analysis Requirements

6.4.1 Certification and Data Acceptance

Laboratories performing analysis will conform to the following:

- For the analysis of any aqueous samples for a parameter or category of parameters for which laboratory certification exists pursuant to NYSDOH ELAP Certification, the laboratory will be certified for that specific parameter or category of parameters pursuant to NYSDOH ELAP Certification.
- For the analysis of non-aqueous samples using specific analytical methods contained in the EPA Publication SW-846, "Test Methods for Evaluating Solid Waste", third edition, update IIF, January 1995, as amended and supplemented, for a parameter or category of parameters for which certification exists pursuant to NYSDOH ELAP Certification, the laboratory will be certified for that specific parameter or category of parameters pursuant to NYSDOH ELAP Certification or, at a minimum, have obtained temporary approval to analyze regulatory samples pursuant to NYSDOH ELAP Certification.
- For analysis of samples where Category B deliverables are required, NYSDOH ELAP CLP certification is required for the category of parameters to be analyzed for. The DER will

reject analytical data from any laboratory for which its certification for the parameter analyzed for has expired, decertified and/or been suspended.

6.4.2 *Analytical Methods*

Except as provided below, analytical methods used will have been published in the most current NYSDEC Analytical Services Protocol. Where possible, the method selected must achieve a detection limit that is below the lowest standard or guidance value that applies to the media being sampled and analyzed for the contaminant(s) that can reasonably be expected to be found.

If an analytical method as described above does not exist for a specific contaminant or parameter within a specific matrix, or if an analytical method as described above for a given contaminant or parameter is demonstrated to be inappropriate for the matrix analyzed, or the method cannot achieve a detection limit below the applicable standard or guidance value, then the person responsible for conducting the investigation and/or remediation will:

- Select an appropriate method from another source;
- Document the rationale for selecting the method; and
- Develop a standard operating procedure for the method, including a quality control section.
- Exception: it is recognized that the analytical methods for semi-volatile compounds in soil frequently can not achieve detection limits below regulatory action levels. In these cases, EPA Method 8270 is acceptable irrespective of the detection limit.

Methods acceptable to the DER will be utilized for the determination of the presence of free product in soil or water. Such methods include, without limitation, visual identification of sheens or other visible product, measurable thickness of product on the water table, the use of field instruments, ultraviolet fluorescence, soil-water agitation, centrifuging, and hydrophobic dye testing.

For contaminants that in their pure phase and at standard state conditions (20 degrees Celsius to 25 degrees Celsius and one atmosphere pressure) have densities greater than water, free product will be considered to be present if the contaminant is detected in groundwater at concentrations equal to or greater than one percent of the water solubility of the contaminant if groundwater contains only that organic contaminant. If a mixture of such contaminants is present, then the effective water solubility of the contaminant should be estimated for this determination.

Gas chromatography methods with a mass spectrometer detector system should be used for analysis of semi-volatile contaminants (exclusive of herbicides, pesticides, and PCBs). Other chromatography methods (liquid chromatography, HPLC) with appropriate detector systems should be used for the analysis of organic analytes

amenable only to non-gas chromatographic methods. A mass spectrometer detector system is not required if the site has already been characterized to the extent that all contaminants are known.

6.4.3 *Specific Requirements*

Laboratories will follow all quality assurance/quality control procedures specified in the analytical methods. Sampling methods, sample preservation requirements, sample handling times, decontamination procedure for field equipment, and frequency for field blanks, field duplicates and trip blanks should conform to the NYSDEC Analytical Services Protocol (ASP), unless an alternate method/procedure has been approved.

Results from analysis of soils and sediments will be reported on a dry weight basis, except for those results required by the method to be otherwise reported.

6.4.4 *Sample Matrix Cleanup*

Acceptable sample matrix cleanup methods include, without limitation, those methods contained in the EPA Publication SW846 or the EPA "Contract Laboratory Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration" in effect as of the date of sample analysis.

Sample matrix cleanup methods will be performed if:

- Petroleum contaminated soils, sediments, or other solids are analyzed for semi-volatile organics, and the method detection limits are elevated above the applicable remediation standard because of matrix interference;
- Gas chromatographic peaks are not adequately separated due to matrix interference. A peak will be considered inadequately separated when a rise in baseline or extraneous peaks interfere with:
 - (1) the instrumental ability to correctly identify compounds present (including internal standards and surrogates), and/or;
 - (2) the integration of peak area and subsequent quantization;
- So specified by the analytical method; or
- Matrix interferences prevent accurate quantization and/or identification of target compounds.

6.4.5 *Laboratory Data Deliverables*

Unless otherwise approved in advance by the DER, laboratory data deliverables should be as follows (with the exception of the soil gas data).

- Category B laboratory data deliverables as defined in the Analytical Services Protocol (ASP) should be submitted for initial, confirmatory (post remediation) samples and final delineation samples for all sites. In addition, a Data Usability Summary Report will be prepared by a party independent from the laboratory performing the analysis.

- Analytical results without all quality control documentation and raw data may be provided for all intermediate sampling events and for all long-term groundwater monitoring samples where the site has DER oversight, provided the following information is submitted:
 - (1) A cover page, including facility name and address, laboratory name and address, laboratory certification number, if applicable, date of analytical report preparation and signature of laboratory director;
 - (2) A listing of all field sample identification numbers and corresponding laboratory sample identification numbers;
 - (3) A listing of all analytical methods used, including matrix cleanup method;
 - (4) The method detection limit and practical quantization level for each analyte for each sample analysis;
 - (5) All sample results including date of analysis;
 - (6) All method blank results; and
 - (7) All chain of custody documentation.
- Upon written request, the DER may require that deliverables package be upgraded to a "Category B" data deliverables package for any sample analysis. If the backup documentation is not available to generate "Category B" deliverables or that the lab is not qualified to generate "Category B" deliverables (not ELAP-CLP lab), reanalysis or resampling and analysis is an option.
- Identify any analytical cleanup methods, where applicable.

6.4.6 Field Screening Methods

Field screening methods, (such as immunoassay, x-ray fluorescence, and mobile laboratories) are limited as follows:

Field screening methods for all sampling matrices (soil, water, air, interior surfaces) can only be used under the following conditions:

- For contaminant delineation if contaminant identity is known or if there is reasonable certainty that a specific contaminant may be present (for example, benzene, toluene, ethylbenzene, xylene in the case of sampling for a gasoline release); or
- To bias sample location to the location of greatest suspected contamination.

Field screening methods should not be used to verify contaminant identity or clean zones unless there has been a correlation study approved in advance by the DER for the specific site where screening methods are proposed for verification.

Where field screening is used:

- A standard operating procedure must exist or be developed which includes:
 - (1) A detailed step by step procedure for the analysis method.
 - (2) Duplicate analysis of a minimum of 10% of the samples.

(3) Quality assurance procedures (calibration standards, blanks, etc.) as specified by the method.

(4) Laboratory confirmation on a minimum of 10% of the samples by a standard ASP method is required. There should be no bias in the selection of duplicate or laboratory confirmation samples, such as selecting positive detections or duplication or confirmation. The duplicate or confirmation analysis should be done on a minimum of every 10th sample, selected in the order they are presented for analysis. Laboratory confirmation occurs if the correlation between field screening and laboratory results are within +/- 30%.

- Analysis must be done by a Field Analyst with the following minimum qualifications:
 - (1) Completion of a certification course or training by an experienced analyst who has demonstrated proficiency in the method; or,
 - (2) Demonstration of the analyst's proficiency by correlation of the analyst's results with laboratory confirmation analysis.

Other field screening methods may be acceptable, subject to the DER's review of documentation.

6.4.7 *Analytical Parameter Requirements*

The following requirements apply for selection of analytical parameters:

- Samples from each area of concern should be analyzed for contaminants which may be present.
- Analysis of Target Compound List plus 30/Target Analyte List (TCL+30/TAL), petroleum hydrocarbons, and pH should be conducted when contaminants in an area are unknown or not well documented, although a limited contaminant list may be used subject to the DER's approval. At the subject property, TAL total metals by EPA Method 6010/7471 series is proposed.

6.4.8 *Petroleum Storage and Discharge Areas*

Sample analysis should be conducted pursuant to the requirements of STARS #1 "Petroleum Contaminated Soil Guidance Policy." Samples taken in non-petroleum storage and discharge areas should be analyzed for the stored material. Analysis should be conducted using any gas chromatography method by a laboratory that is certified pursuant to NYSDOH ELAP for the category of parameters being analyzed for. Laboratory deliverables should be as specified in the method listed above.

6.4.9 *If Air Sampling is Required*

The quality assurance procedures specified in the method approved by the DER for the sampling should be followed. Quality assurance procedures should follow the guidelines or direction of the NYSDOH. The laboratory method to be used for soil gas or air sampling must be able to detect contaminant levels at or below typical background concentrations.

7.0 HEALTH AND SAFETY PLAN

A site specific Health and Safety Plan has been developed and is attached as Appendix D. The plan will be adhered to by all personnel involved in the investigation and/or remediation. Incorporated into the plan is a section on community health and safety with measures to ensure the public living and working near the site, including facility employees or visitors, are protected from exposure to site contaminants during intrusive activities or on-site treatment actions.

8.0 COMMUNITY AIR MONITORING PLAN

A Community Air Monitoring Plan (CAMP) provides for real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

8.1 Continuous Monitoring

Continuous monitoring or monitoring in a manner acceptable to the Department will be performed for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

8.2 Periodic Monitoring

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well bailing/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such

situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

8.3 VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a periodic basis or in a manner acceptable to the Department. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings will be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

8.4 Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored or in a manner acceptable to the Department at temporary particulate monitoring stations at the downwind perimeter of the immediate work area (i.e., the exclusion zone) or as otherwise specified. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for State (DEC and DOH) personnel to review.

9.0 CITIZEN PARTICIPATION

As part of the Citizen Participation (CP) requirements, a formal CP has been developed for implementation during this project. The CP has been provided under separate cover.

Figures

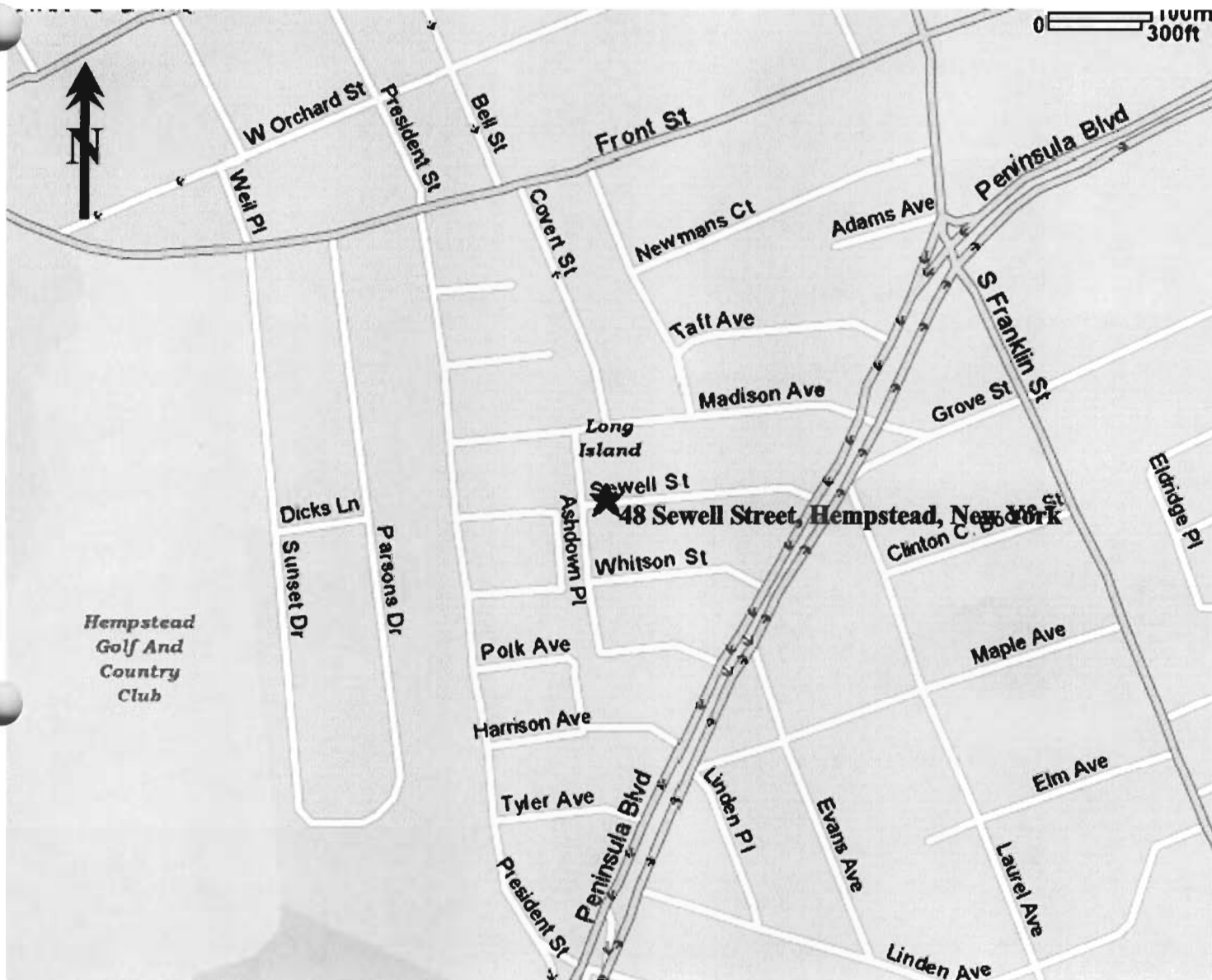


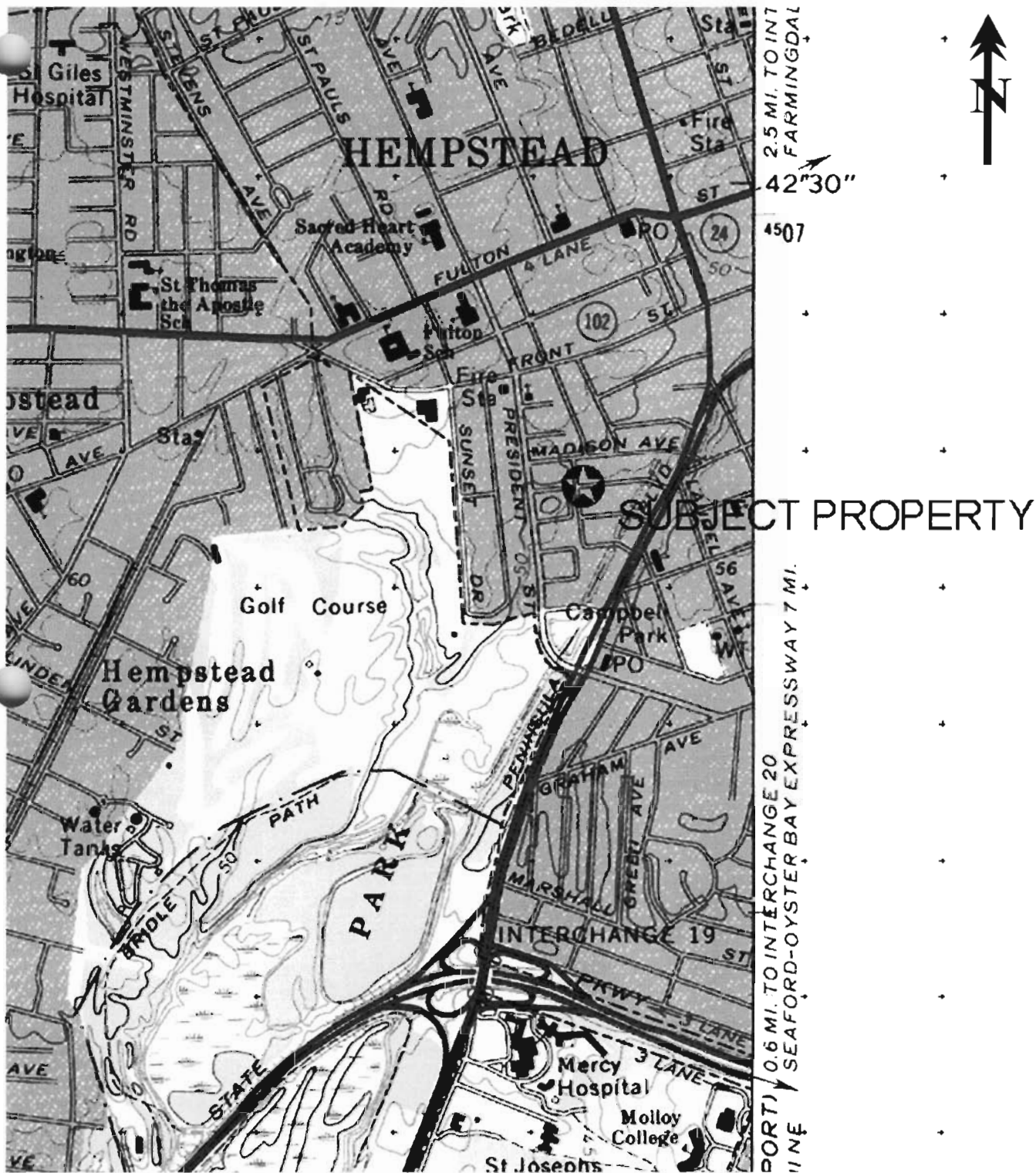
Figure 1 - Site Location

**Former Husslein Plating Corp.
48 Sewell Street
Hempstead, New York**

**Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716**

(631) 589-6521

Fax (631) 589-6528



USGS Lynbrook Quadrangle

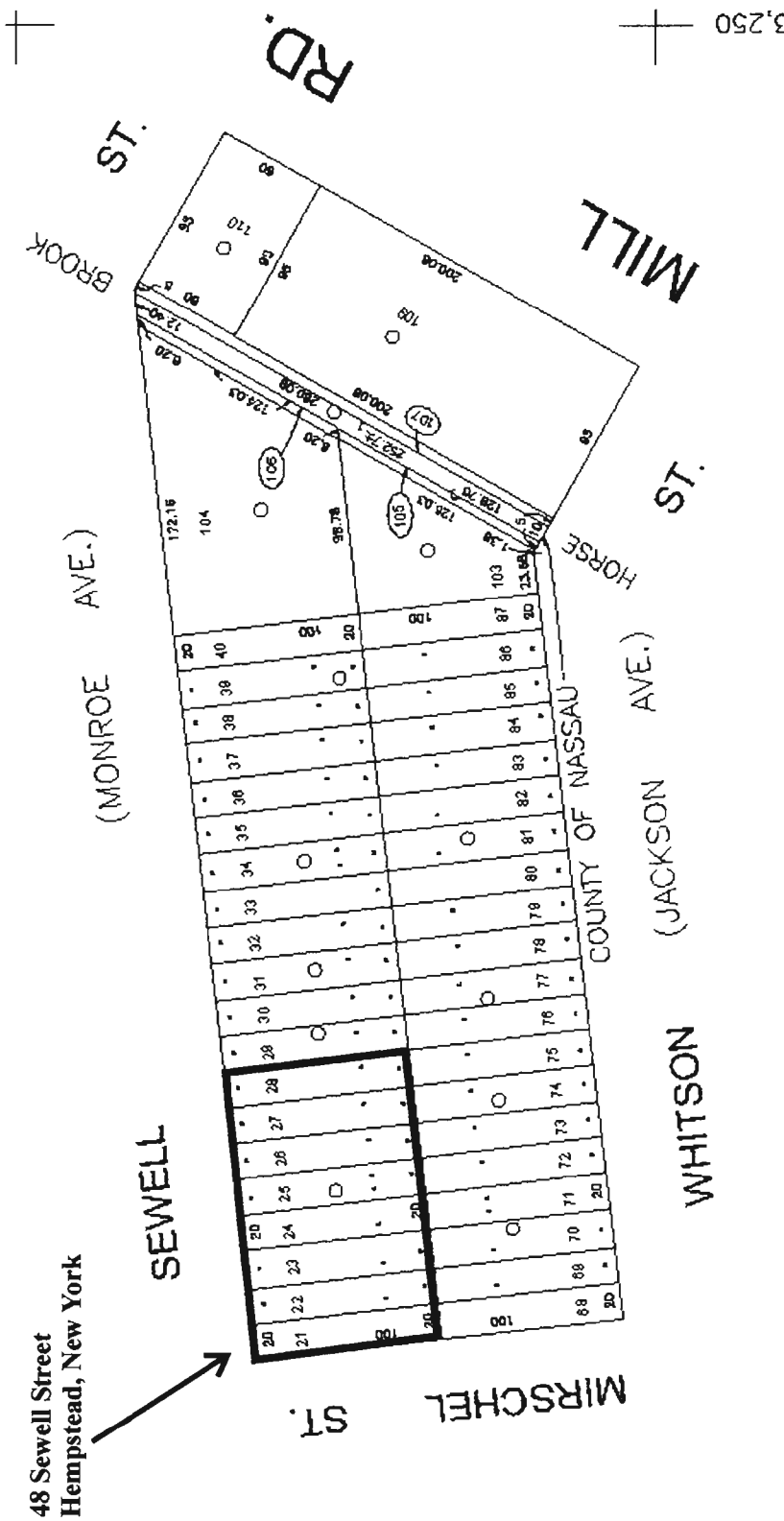
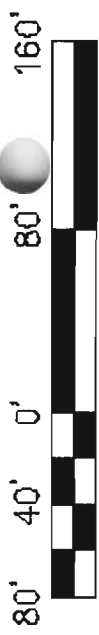
**Figure 2 - Topographic
Elevation Map**


**Former Husslein Plating Corp.
48 Sewell Street
Hempstead, New York**

**Berninger Environmental, Inc.
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Bohemia, New York 11716**

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Fax (631) 589-6528




 Nassau County
 Department of Assessment
 Charles O'Shea, Chairman
Land & Tax Map
 Map Last Revised: March 20 2020
 SEC. 35
 BLK. 638
 SHEET 1 OF 1

Berninger Environmental, Inc.
 90-B Knickerbocker Avenue
 Bohemia, New York 11716
 (631) 589-6521 Fax (631) 589-6528

Former Husslein Plating, Corp.
 48 Sewell Street
 Hempstead, New York

Figure 3 - Nassau County Tax Map

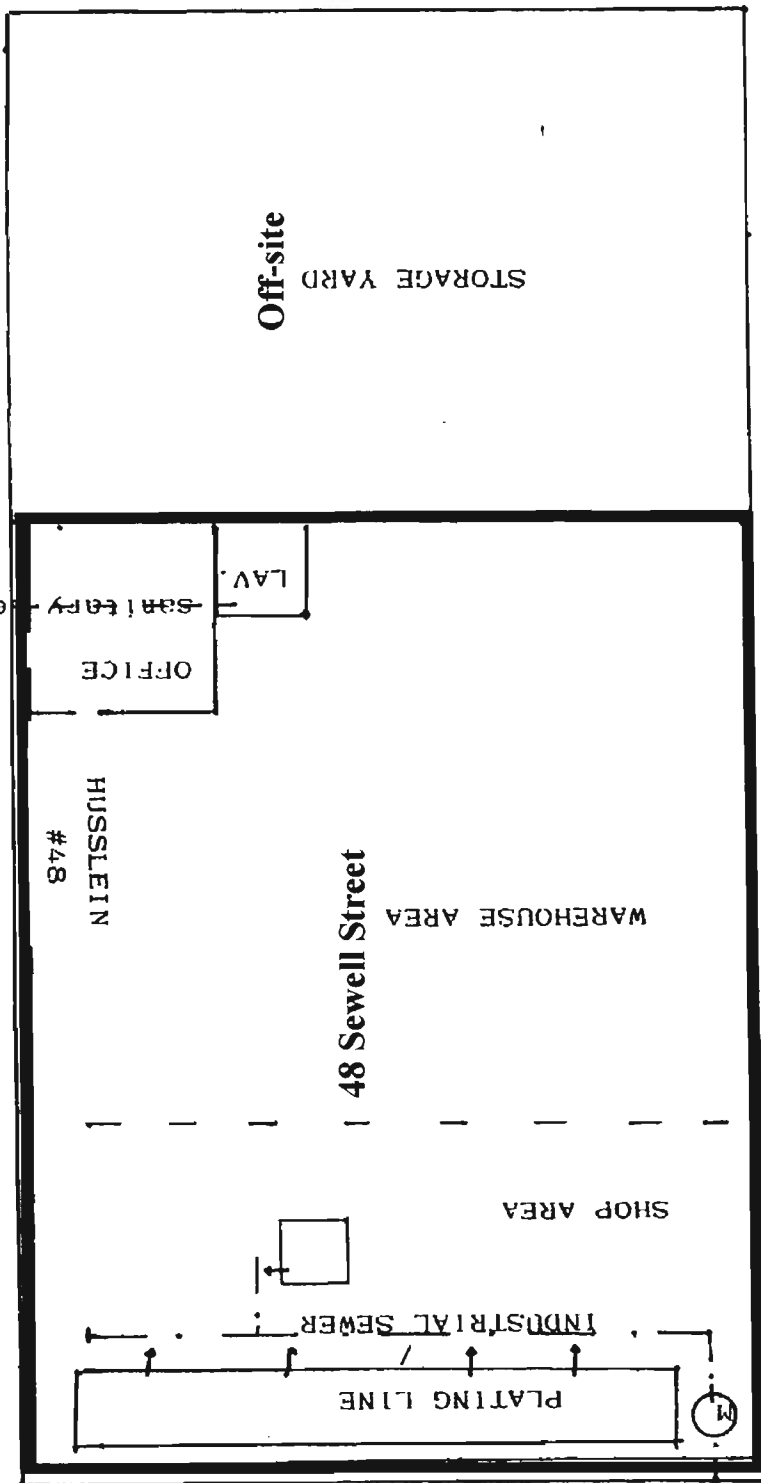
SEWELL ST.

MIRSHEL ST.

Village of Hempstead sewer

M = monitoring point

No Scale

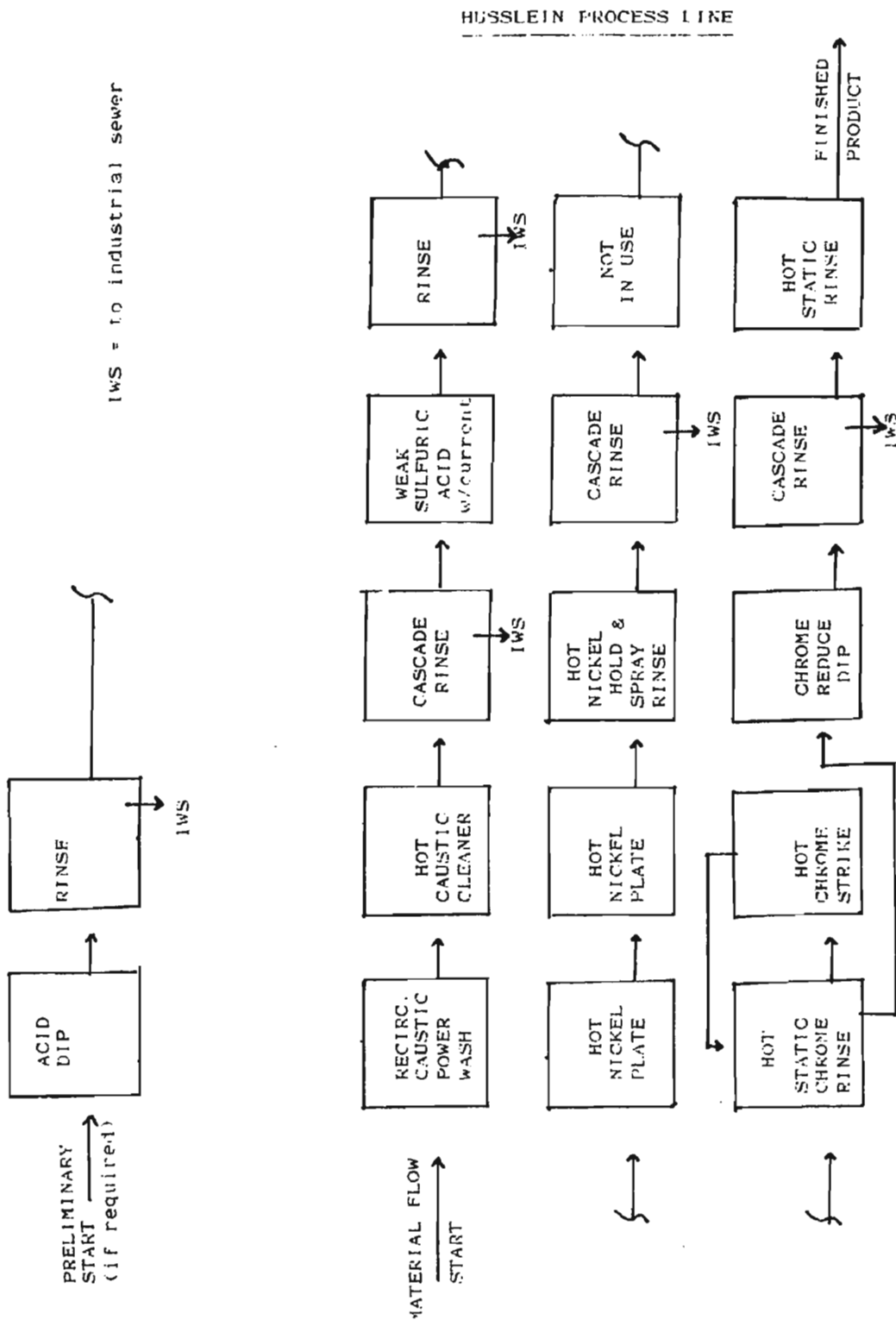


Source: Nassau County Department of Health Records

Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716
(631) 589-6521 Fax (631) 589-6528

Former Husslein Plating, Corp.
48 Sewell Street
Hempstead, New York

Figure 4 - Former Property Use



No Scale

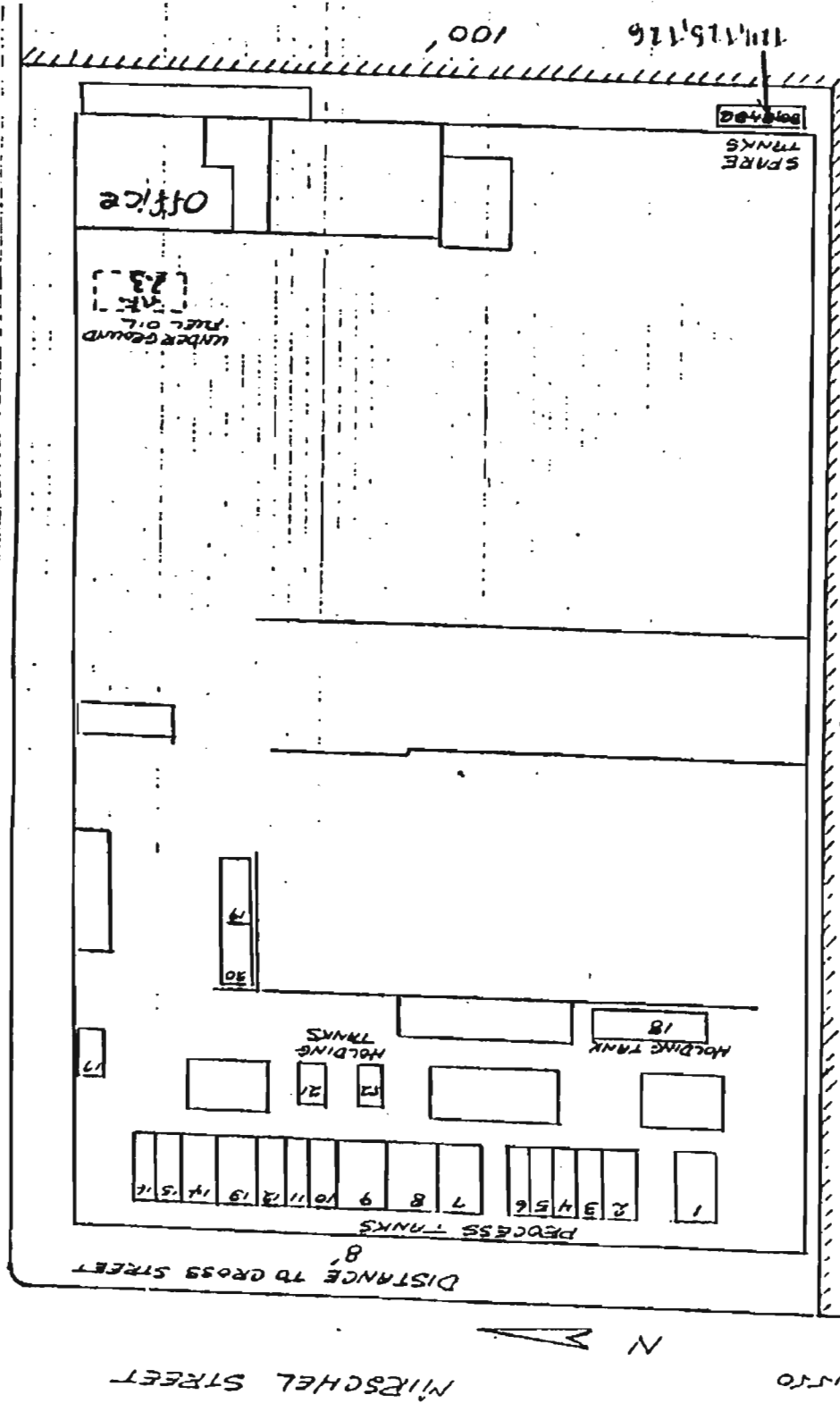
Source: Nassau County Department of Health Records

Figure 4a - Plating Line Schematic

Former Husslein Plating, Corp.
48 Sewell Street
Hempstead, New York

Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716
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SEWELL STREET



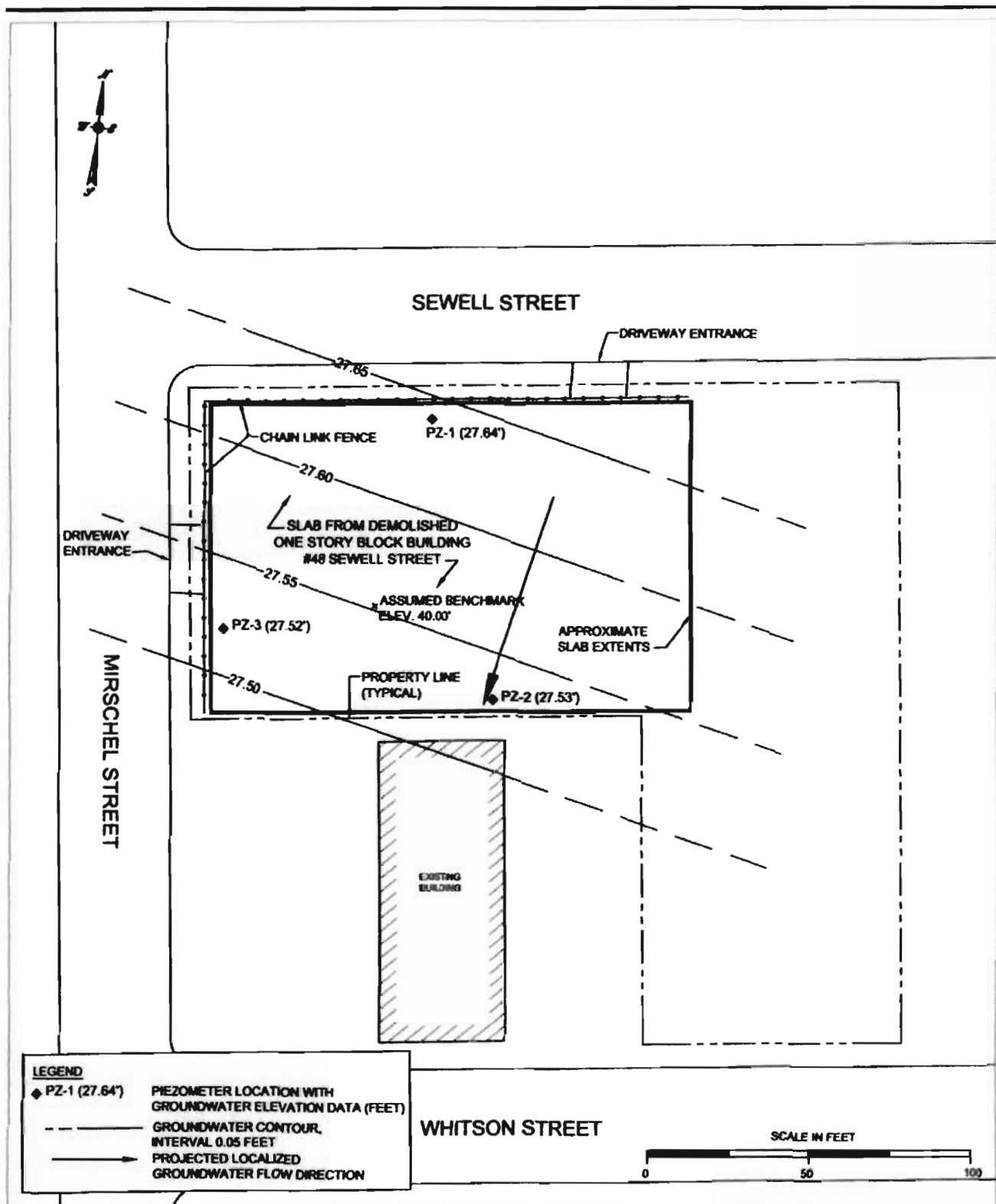
No Scale

Source: Nassau County Department of Health Records

Figure 5 - Former Locations of Process, Holding and Fuel Oil Tanks

Former Husslein Plating, Corp.
48 Sewell Street
Hempstead, New York

Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716
 (631) 589-6521 Fax (631) 589-6528



PREPARED BY: J.R.HOLZMACHER CONSULTING ENGINEERS

Groundwater Elevation Data - October 17, 2003

Figure 6 - Groundwater Elevation Map

Former Husslein Plating Corp.
48 Sewell Street
Hempstead, New York

Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716
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Clinton Street Well Field

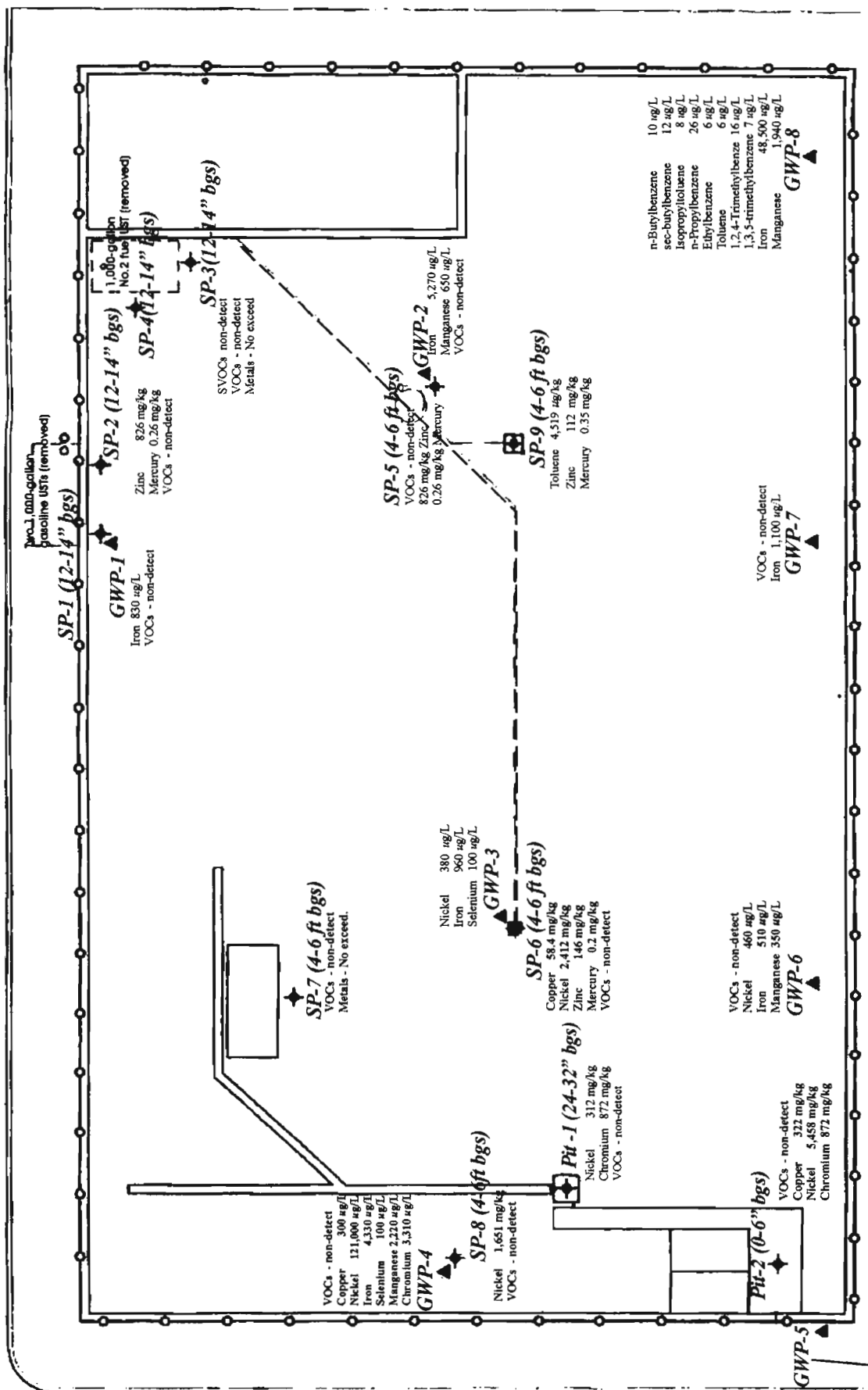


Scale = 1 inch = 775 +/- feet

Former Husslein Plating, Corp.
48 Sewell Street
Hempstead, New York

Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716
(631) 589-6521 Fax (631) 589-6528

Sewell Street



Mirschel Street

Notes:

- ug/kg - Micrograms per kilogram

- mg/kg - Milligrams per kilogram - ug/L - Micrograms per liter

Groundwater samples collected at approximately 13 feet bgs.
Contaminants listed are those detected in soil and/or groundwater samples at concentrations exceeding applicable regulatory standard and/or guidance value

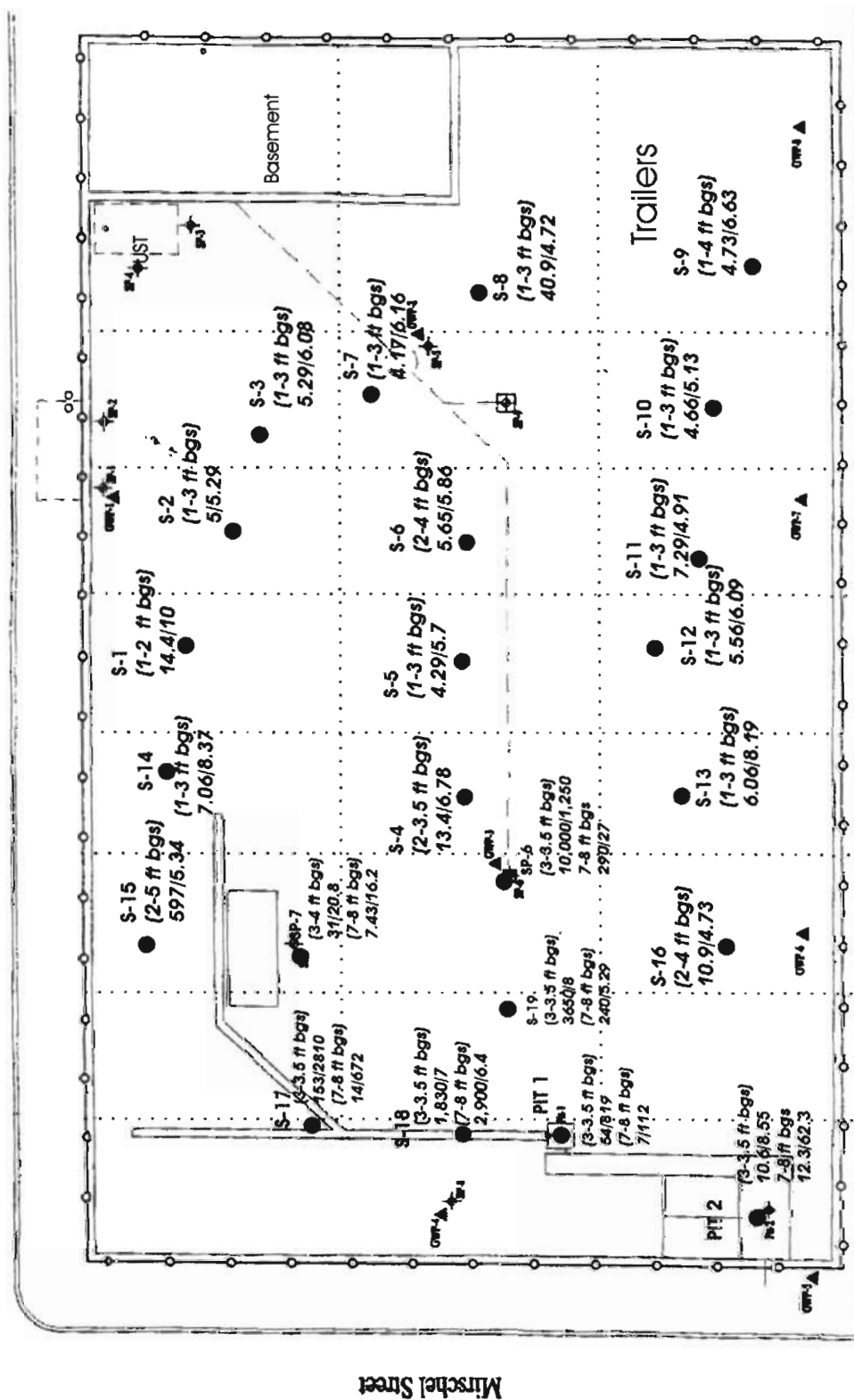
No Scale

Figure 8- Soil and Groundwater Data
From Kosuri Engineering & Consulting, P.C. Phase II ESA
April 2001

Former Husslein Plating, Corp.
48 Sewell Street
Hempstead, New York

Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716
(631) 589-6521 Fax (631) 589-6528

Sewell Street



Notes:

- Soil Sampling Location
- Concrete panel/ sampling grid

5/5.29 - Total Nickel/Chromium (total) conc. mg/kg

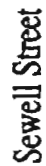
Scale - 1" = 21 ft

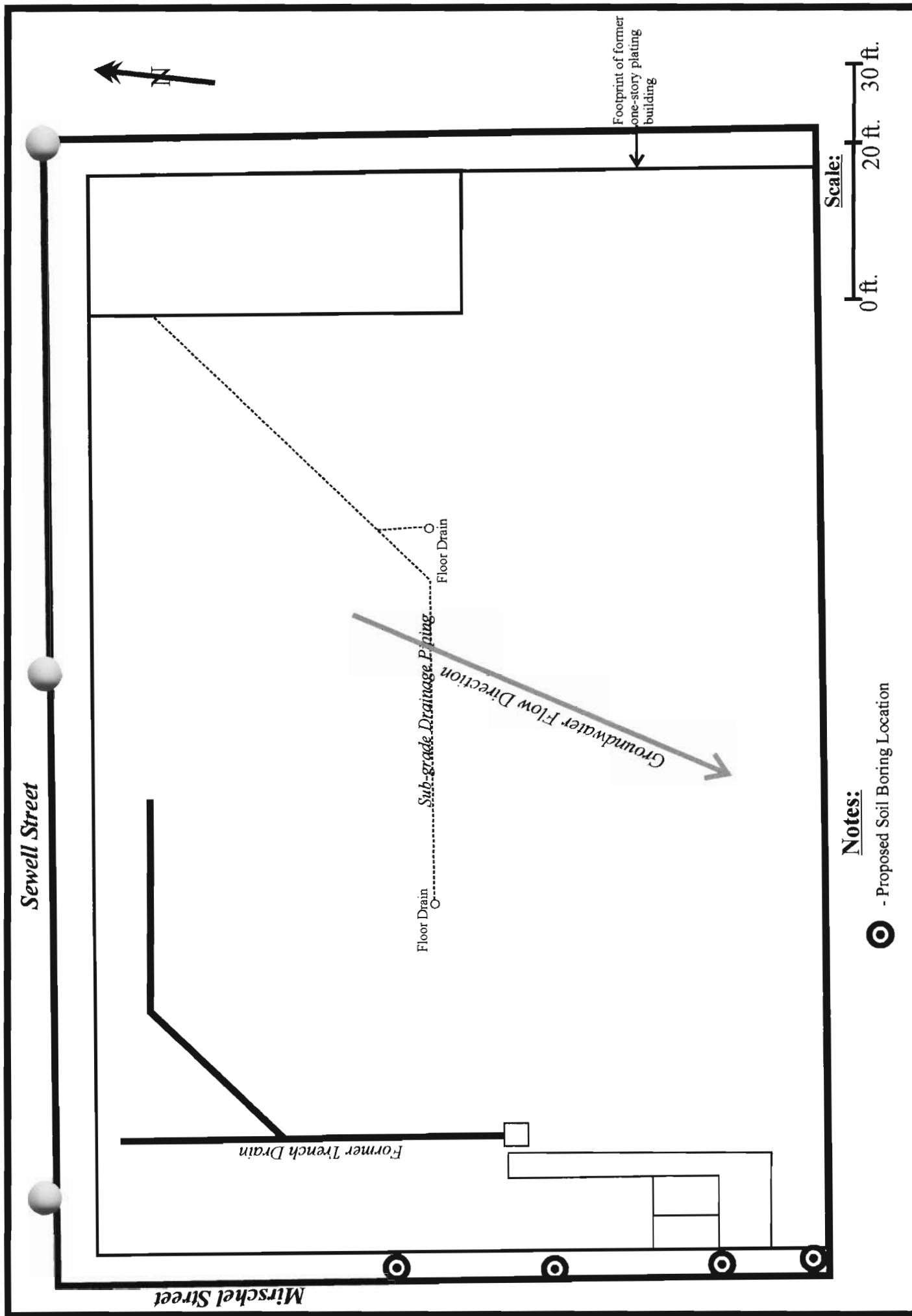
Base reference - Phase II Report, April 2001
Boring Map Updated August 2004

Figure 9 - Soil Boring Location Map with Nickel/Chromium Data - August 2004

Former Husslein Plating, Corp.
48 Sewell Street
Hempstead, New York

Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716
(631) 589-6521 Fax (631) 589-6528





Notes:
 - Proposed Soil Boring Location

<p>Berninger Environmental, Inc. 90-B Knickerbocker Avenue Bohemia, New York 11716 (631) 589-6521 Fax (631) 589-6528</p>	<p>Former Husslein Plating, Corp. 48 Sewell Street Hempstead, New York</p>	<p>Figure 12 - Proposed Soil Borings</p>
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Sewell Street

Mirschel Street

Footprint of former
one-story plating
building

Scale:

0 ft. 20 ft. 30 ft.

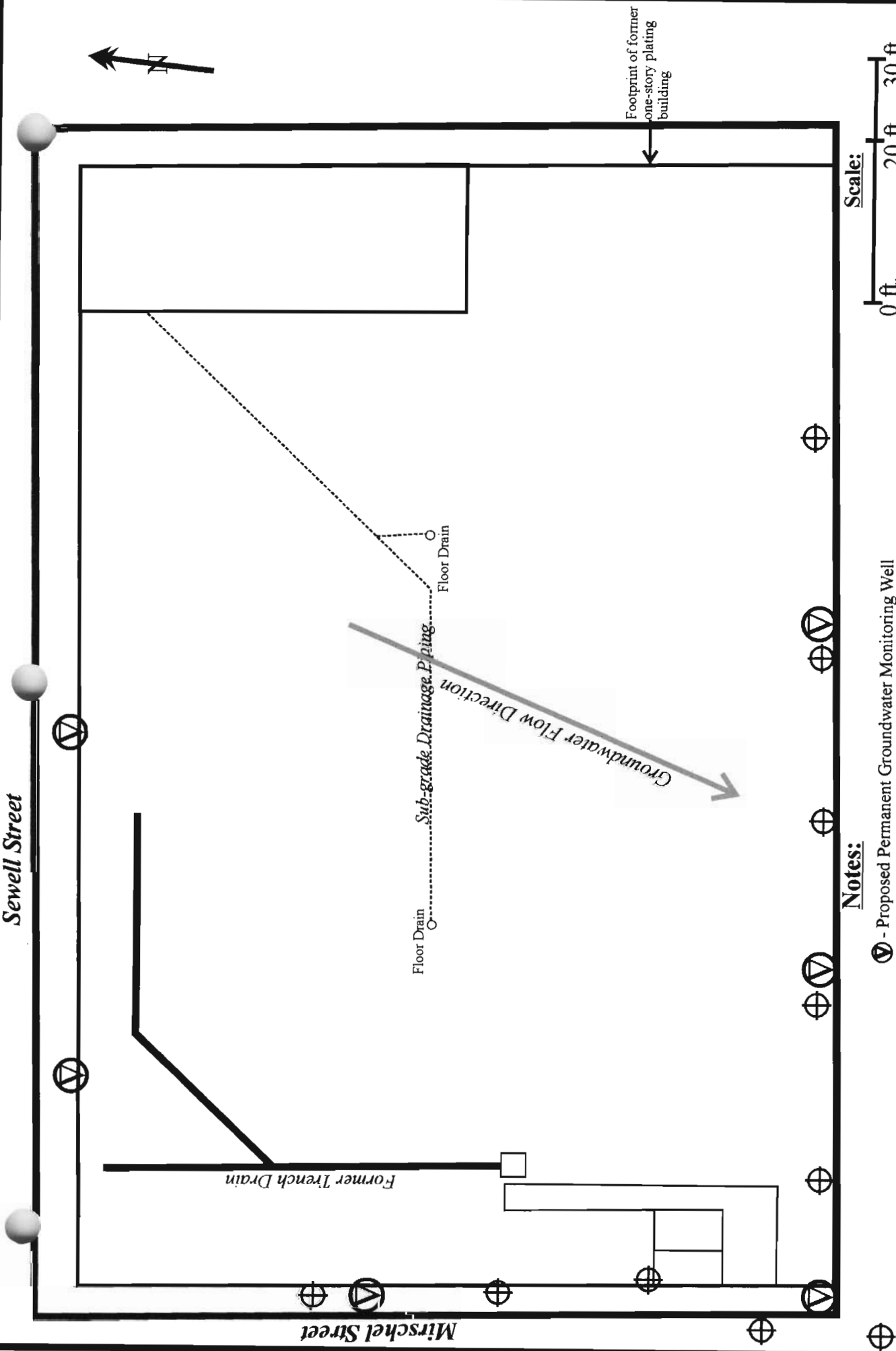
Notes:

- ⊙ - Proposed Permanent Groundwater Monitoring Well
- ⊕ - Proposed Temporary Groundwater Monitoring Well

Figure 13 - Proposed Temporary and Permanent Groundwater Monitoring Wells

Former Husslein Plating, Corp.
48 Sewell Street
Hempstead, New York

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(631) 589-6521 Fax (631) 589-6528



APPENDIX A

Metes and Bounds Description and Photographic Log (2004 - 2005)

Description of
Section 35, Block 638, Lots 21-28

All that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being at Hempstead, Town of Hempstead, County of Nassau, State of New York bounded and described as follows:

Beginning at the corner formed by the intersection of the southerly side of Sewell Street with the easterly side of Mirschel Street running thence the following four (4) courses and distances;

1. South 87 deg. 20 min. 30 sec. East a distance of 160.00',
2. South 2 deg. 39 min. 30 sec. West a distance of 100.00',
3. North 87 deg. 20 min. 30 sec. West a distance of 160.00' to the easterly side of Mirschel Street,
4. Along said side North 2 deg. 39 min. 30 sec. East a distance of 100.00' to the point or place of beginning.



Photograph No. 1 - View of southwest corner of the property, along Mirschel Street. Location of former wastewater treatment pits and former municipal sewer connection.



Photograph No. 2 - View of interior of the property, former trench drain is depicted in foreground. Installation of soil borings and monitoring wells.



Photograph No. 3 - View of interior of the property, looking to the east.



Photograph No. 4 - View of the western portion of the property, location of former plating operations and wastewater treatment.



Photograph No. 5 - View of northeast corner of the property, location of former office and basement structure with old heating system; No. 2 fuel oil UST was located at this area, prior to its removal.



Photograph No. 6 - Injection of Metals Remediation Compound in April/May 2005 at subgrade impacted soil source areas and at southwest property perimeter.



Photograph No. 7 - Supplemental soil sampling in subgrade soil source areas to collect samples for pre-disposal characterization for the IRM.

APPENDIX B

Historic Records and Copies of Prior Studies



PREFERRED ENVIRONMENTAL SERVICES

325 Merrick Avenue, 2nd Floor, East Meadow, NY 11554 • Tel: (516) 357-8200 • Fax: (516) 357-8175

February 13, 2006

Marilyn Genoa, Esq.
Genoa & Associates, P. C.
12 Jaegger Drive
Old Brookville, New York 11545

Re: Continued Groundwater Monitoring
48 Sewell Street (Former Husslein Plating Corp.)
Village of Hempstead, New York

Dear Ms. Genoa:

This letter report provides a summary of continued groundwater monitoring activities conducted at the above-referenced property. This report is a follow-up to the monitoring report for the baseline groundwater sampling performed prior to the implementation of an Interim Remedial Measure (IRM) at the former Husslein Plating Corp. property located at 48 Sewell Street, Village of Hempstead, New York.

Background

A Brownfield Cleanup Program (BCP) application for this property is pending approval by the New York State Department of Environmental Conservation (NYSDEC) under the applicant, 48 Sewell Street, LLC. In order to provide an interim mitigative measure while the brownfield application was being processed, the applicant proceeded with an IRM during April -May 2005 which included the injection of Metal Reducing Compound (MRC) into the groundwater to inhibit the ion mobility of inorganic constituents (predominantly nickel and chromium) identified in site soils and groundwater at the subject property. This event was preceded by a round of groundwater sampling on April 13, 2005, performed to provide current baseline data, prior to the MRC injection.

Baseline Groundwater Sampling

The MRC injection efforts were preceded by the installation of four (4) two-inch diameter monitoring wells, development and subsequent baseline groundwater sampling. These wells were installed on April 12, 2005 and consisted of one upgradient (MW-1) and three downgradient (MW-2 to MW-4) wells, relative to groundwater flow direction (southwest) and the source areas identified on-site (see attached Figures 1 and 2). Three of the four wells (MW-1 to MW-3) were installed within close proximity of the exterior fence wall as refusal or other field constraints were noted in the interior portion of the property. The fourth well (MW-4) was installed at a location along the southwest downgradient interior perimeter.

The two-inch wells were installed to a depth of 20 feet bgs. A fifteen-foot well screen was installed. This allowed for a completion of the well screen approximately five feet above and ten feet below the current groundwater table interface. After installation, the wells were developed and allowed to come to equilibrium. The four wells were sampled on April 13, 2005 as a baseline sampling event, prior to the IRM. A sample from each of the four wells was submitted for analysis for RCRA total

Metals inclusive of total nickel. In order to ensure a representative sample, purging was continued until turbidity was reduced to less than 10 NTUs. Laboratory analysis was performed by a New York State Department of Health ELAP-certified laboratory (American Analytical Lab) with appropriate chain-of-custody. Groundwater quality data for April 13, 2005 is provided on Table 1.

Continued Groundwater Quality Monitoring - September 2, 2005 and December 12, 2005

Since the baseline sampling event, two additional quarterly groundwater monitoring events have been completed. First quarterly sampling event was conducted on September 2, 2005. The second quarterly sampling event was completed on December 12, 2005. For both sampling events, the depth to groundwater was measured in order to calculate the standing well volume and the required amount of purging to ensure a representative sample. The monitoring wells were purged with a low flow (<100 ml/minute) rate peristaltic pump. Five well bore volumes were removed and samples were collected after the turbidity was reduced to less than 10 NTUs. A sample from each of the four wells was submitted for analysis for RCRA total Metals inclusive of total nickel. Laboratory analysis was performed by a New York State Department of Health ELAP-certified laboratory (American Analytical Lab) with appropriate chain-of-custody. Quarterly groundwater sampling at the four monitoring wells during the first quarter also included HPLC-UV Metabolic Acids (STL Labs) and other relevant field parameters.

Groundwater Data Evaluation

In order to provide a comparative basis for the groundwater samples collected, the analytical testing data was compared to NYSDEC Groundwater Class Ga Potable Ambient Water Quality Standards and Guidance Values (SGVs) (NYSDEC TOGS 1.1.1) Revised April 2000. The September and December 2005 data were also compared to the April 2005 (baseline) groundwater sampling data. A summary of those constituents detected and/or quantified above the NYSDEC SGVs are given in Table 1. Exceedances of these values are highlighted in bold. A copy of the September and December 2005 analytical testing data is provided as an attachment.

Depth to groundwater at the subject property has historically been noted at approximately between 10-14 feet below grade surface (bgs). Significant variations in depth to groundwater (>2 feet) were observed from the baseline sampling event in April 2005 to September 2005. Groundwater levels were noted as decreasing approximately two feet from their September 2005 levels. As excessive rainfall on Long Island was noted during the typically dry winter season depth to groundwater was noted to rebound approximately two feet in December 2005. Therefore, groundwater elevations in December 2005 were similar to the groundwater depth noted in the baseline April 2005 sampling event (see Table 2).

The injection of MRC was performed when groundwater depths were relatively shallower, in the 10 feet bgs range. This allowed for the injection of MRC into soils that are periodically re-wetted as part of normal groundwater fluctuations.

As indicated in Table 1, analysis of groundwater samples collected in September and December

Preferred Environmental Services

325 Merrick Avenue 2nd Floor • East Meadow, New York 11554
Telephone: (516) 357-8200 • Facsimile: (516) 357-8175

2005 reported the following: both chromium and nickel were present at concentrations in exceedance of their respective SGVs of 0.050 mg/L and 0.100 mg/L at all three of the downgradient monitoring well locations (MW-2 to MW-4)¹. Concentrations of nickel ranged from non-detect or below the SGV at MW-1 to a high of 11.7 to 13.9 mg/L at MW-3, located at the southwest corner of the subject property, near Pit No. 2. Concentrations of chromium ranged from non-detect at MW-1 to a high of 0.449 to 0.649 mg/L at MW-2. No other constituents analyzed for were present above their method detection limits with the exception of lead, iron, barium and silver. All of the aforementioned metals were present at concentrations well below their respective SGVs. Quarterly groundwater sampling for HPLC-UV Metabolic Acids indicated the non-detection of same.

Comparison of the most recent round of sampling (December 12, 2005) with the baseline sampling event on April 13, 2005 was performed: depth to groundwater was noted to be very similar during these two time periods. A comparison of the concentrations of both chromium and nickel at each of the four monitoring wells evidenced a dramatic decrease in concentrations. In fact chromium has gone to non-detection in the upgradient monitoring well (MW-1), with an approximate 50% reduction in concentration at MW-2 and MW-4 and an even larger decrease reported at MW-3 (from 1.97 mg/L to 0.0186 mg/L [below the SGV]). Reduction in total nickel concentrations noted in December 13, 2005 included non-detection in the upgradient monitoring well (MW-1), also at least a 50% reduction at MW-3 and MW-4, with an even larger proportional decrease at MW-2 (from 3.51 mg/L to 0.695 mg/L).

Summary and Conclusions

A Brownfield Cleanup Program application is pending approval by the NYSDEC. The owner of 48 Sewell Street had previously implemented an interim mitigative measure (IRM in April-May 2005) which included the injection of MRC into the groundwater to inhibit ion mobility of inorganic constituents (predominantly nickel and chromium) identified in site soils and groundwater at the subject property. This event was preceded by a baseline round of groundwater sampling, performed to provide current data, prior to the injection.

Baseline sampling indicated that concentrations of nickel ranged from 0.79 mg/L (upgradient) to 31.3 mg/L at the southwest corner of the subject property. Concentrations of chromium ranged from 0.109 mg/L (upgradient) to 1.97 mg/L at the southwest corner. The concentrations of chromium and nickel reported in groundwater at the southwest corner of the property were very similar to that reported in the first site study in 2001.

Continued monitoring of groundwater quality after the MRC injection has been performed. Both the September and December 2005 groundwater data substantiates the significant reduction of both nickel and chromium in groundwater. A comparison of the most recent data (December 12, 2005) to the baseline data (with very similar groundwater elevations) indicated reductions in both chromium and nickel concentrations of at least 50 percent or greater.

¹ Except for chromium in MW-3 in the December 2005 sampling round.

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Marilyn Genoa, Esq.
Genoa & Associates, P. C.

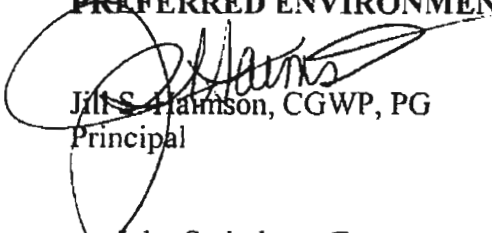
February 13, 2006
Page 4

The impacted soils remaining at the site will be addressed via the pending BCP application and work plan. Quarterly sampling will continue at the property; the next sampling round is scheduled for mid-March 2006.

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

Sincerely,

PREFERRED ENVIRONMENTAL SERVICES



Jill S. Hammon, CGWP, PG
Principal

cc: John Soderberg, Esq.

Preferred Environmental Services

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Table 2 - Depth to Groundwater

Well No.	Depth to groundwater April 13, 2005	Depth to groundwater September 2, 2005	Depth to groundwater December 12, 2005
MW-1	10.85	12.93	10.52
MW-2	10.42	12.54	10.16
MW-3	9.96	12.09	9.68
MW-4	10.87	12.93	10.54

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Table 1

VOCs and Metals Detected in Groundwater Samples Collected on April 13, 2005 and September 2, 2005

Metals (total) (ug/l)	April 13, 2005				September 2, 2005				December 12, 2005				NYSDEC Class GA Ambient Water Quality Standard		Guidance Value
	MW-1	MW-2	MW-3	MW-4	MW-1	MW-2	MW-3	MW-4	MW-1	MW-2	MW-3	MW-4	Standard		
Arsenic	ND	ND	ND	ND	ND	ND	ND	0.0116 J	ND	ND	ND	ND	0.25		NA
Barium	0.0314	0.0477	0.0661	0.0314	0.0369	0.0455	0.0225	0.029	0.0629	0.0555	0.0615	0.0293	1.0		NA
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005		NA
Chromium	0.109	1.25	1.97	0.109	ND	0.449	0.0679	0.0541	ND	0.649	0.0186 J	0.0544	0.050		NA
Iron	NA	NA	NA	NA	0.0384	0.218	3.76	0.0749	0.128	0.135	0.261	0.0134 J	0.300		NA
Lead	ND	ND	ND	ND	0.00905 J	0.00723 J	ND	ND	ND	ND	ND	ND	0.025		NA
Nickel	0.749	3.51	31.3	0.749	ND	0.584	13.9	0.622	0.0240	0.695	11.7	0.31	0.100		NA
Silver	ND	ND	ND	ND	0.0169	0.0178	ND	0.00965	ND	ND	ND	ND	0.050		NA
Mercury (ug/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0007		NA

Notes:

NYSDEC Class GA Ambient Water Quality Standards and Guidance Values.

Revised June 1998, revised April 2000

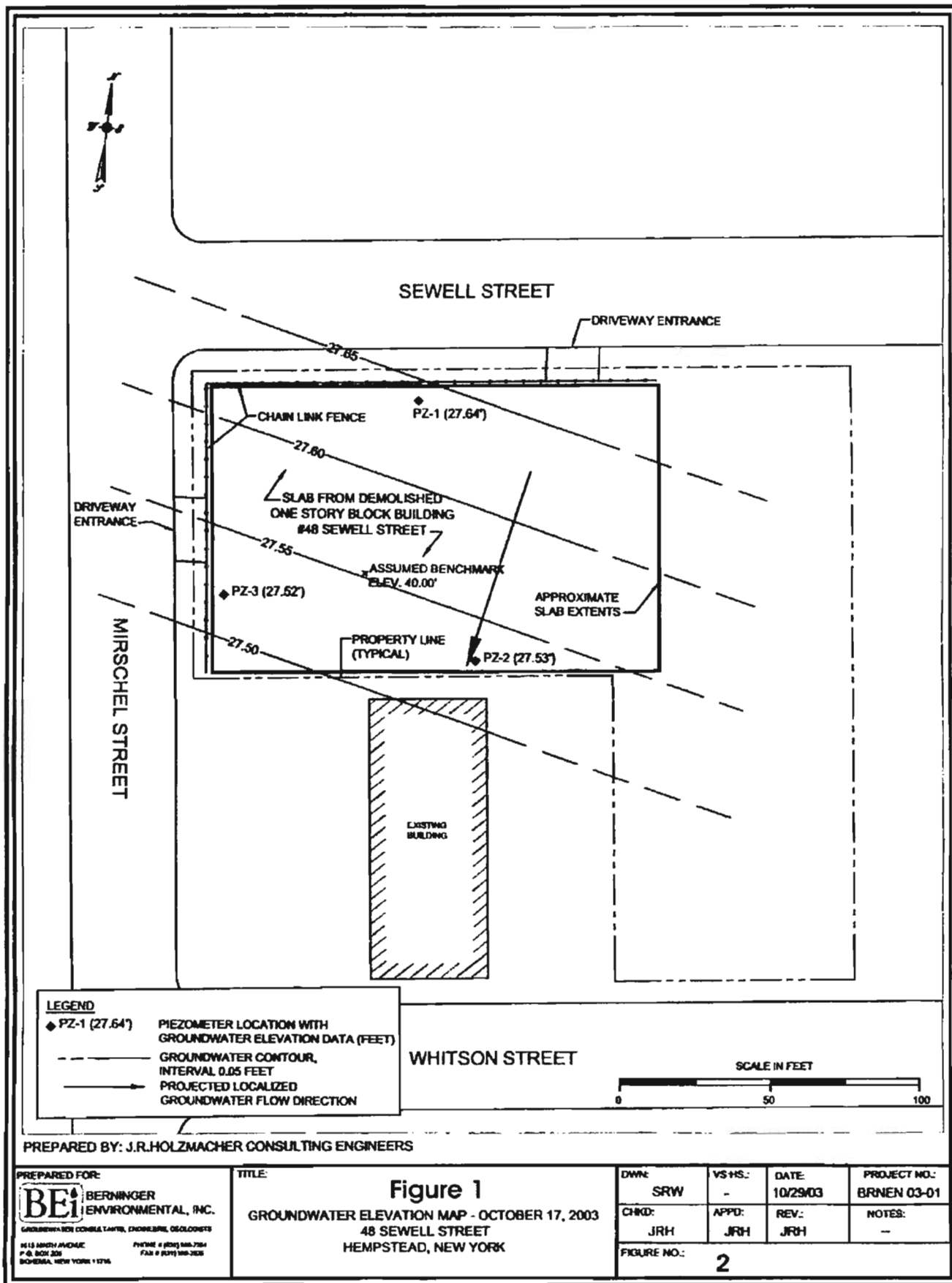
NA = Not Available/Not Analyzed

ND = analyte was not detected above method detection limits

Highlighted value indicates that metal was detected in the total metals analysis at a concentration exceeding its applicable

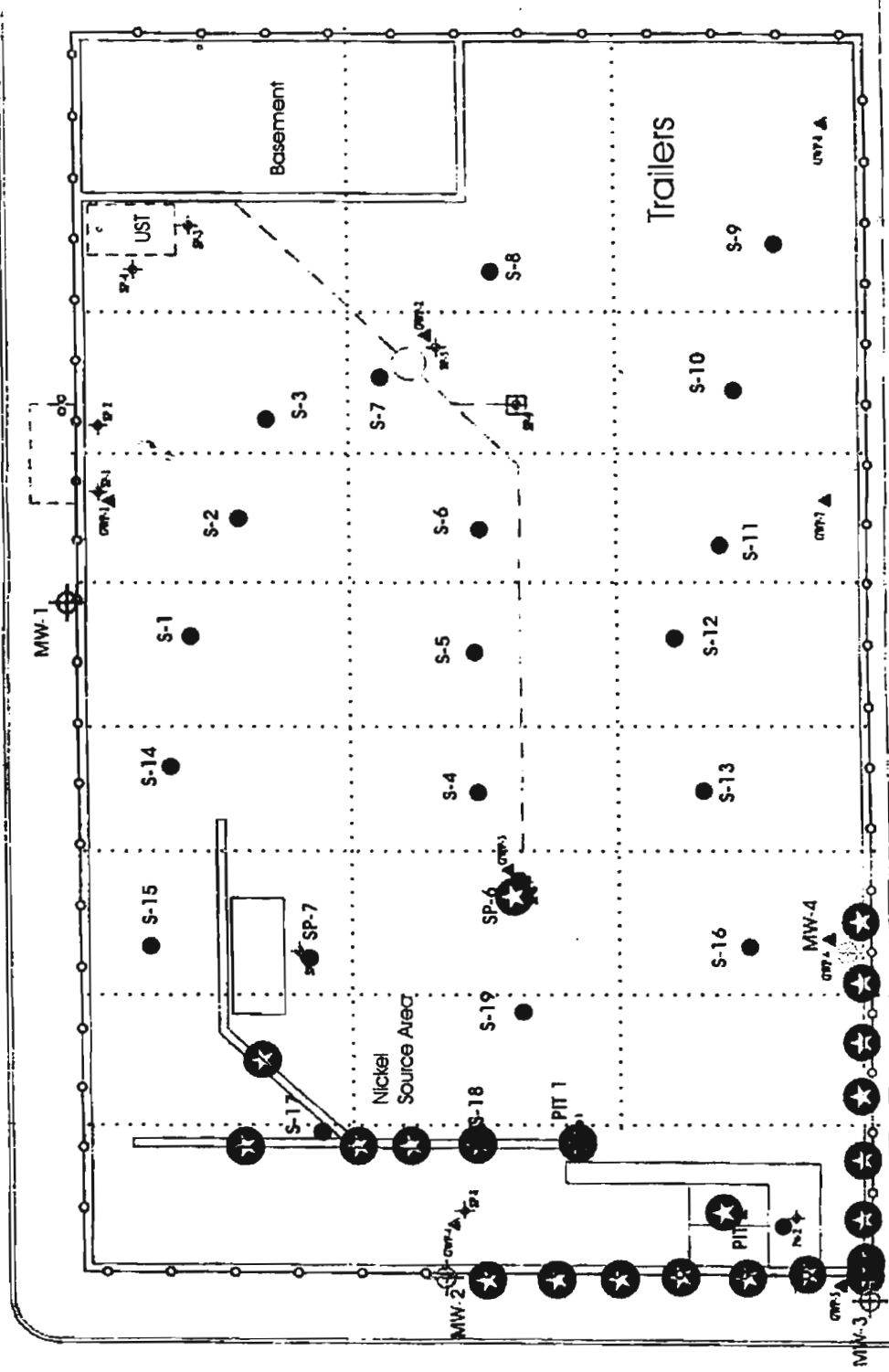
NYSDEC Standard or Guidance Value.

ug/L = micrograms per liter





Sewell Street



**Figure 2 - Location Map of MRC Injection Points and Monitoring Wells
48 Sewell Street, Village of Hempstead, New York**

Soil Boring Program

The soil boring program was implemented on July 22, 2004. A total of seven soil borings were installed within the western portion of the subject property. The installation of the borings, selection of sampling locations and collection of composite soil samples was directed by Ms. Jill Haimson, PG, CGWP Senior Hydrogeologist, in coordination with Mr. William Lahti, P.E., Project Engineer. Soil borings were installed using a Geoprobe drilling system. A Geoprobe is a vehicle-mounted machine that utilizes push technology to drive sampling tools into the subsurface to collect representative and discrete soil samples at selected subsurface depths. Soil sampling locations were pre-selected at predominantly prior sampling locations (SP-6, SP-7, Pit 1, and Pit 2) as well as supplemental data points at S-17, S-18 and S-19 within the western portion of the subject property. (See attached figure).

These soil borings were completed from the desired sampling interval using a four foot long macrocore. Each geoprobe macrocore sampler was decontaminated prior to and in between boring locations and the soil sample was collected inside a new dedicated disposal polyethylene sleeve. Concrete across the subject property was determined to range from three to six inches in thickness. The samples were submitted for analysis for total nickel and chromium and TCLP analysis. Laboratory analysis was performed by a New York State Department of Health ELAP-certified laboratory (American Analytical Lab) with appropriate chain-of-custody.

Analytical Testing Results of Soil Sampling

In order to evaluate the environmental condition of the soils collected from the subject property, comparison was made of the analytical testing data to the New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Clean-up Objectives (RSCOs) provided in the NYSDEC Technical Administrative Guidance Memorandum (TAGM) 94-4046, revised April 1995. A summary data table (Table 1) is provided as an attachment that details the composite sampling interval and the analytical test results for total nickel and chromium.

Exceedances of the NYSDEC RSCOs were noted for both total chromium and nickel at the new sampling depths (3-4 feet and 7-8 feet bgs) at the prior sampling locations (SP-6 and SP-7). Two of the three supplemental sampling locations (S-18 and S-19) reported primarily elevated concentrations of nickel, while S-17 reported both elevated concentrations of chromium and nickel. The shallower sampling interval (3-3.5 feet) at Pit 1 reported both elevated concentrations of both chromium and nickel. Elevated chromium was still present at a depth of 7-8 feet bgs. Pit 2 only had elevated chromium at a depth of 7-8 feet bgs.

A review of the TCLP concentrations for chromium indicated a range of non-detect to the highest concentration of 0.773 mg/L. The RCRA characteristic for TCLP chromium is 5.0 mg/L. None of the samples exhibited TCLP concentrations approaching the 5.0 mg/L RCRA regulatory value. As nickel is not a characteristically hazardous compound, no RCRA regulatory value exists for this compound.

As the TCLP concentrations are a measure of the leachability of the compound in the environment, a comparison can also be made to the potable drinking water standards or guidance value (SGVs) for chromium (0.050 mg/L) and nickel (0.100 mg/L). Based upon this comparison, exceedances of the chromium potable water SGV of 0.050 mg/L was noted at a range of 0.054 mg/L to a high of 0.773 mg/L at four of the sampling intervals. Exceedances of the nickel potable water SGV of 0.100 mg/L was noted at a range of 0.022 mg/L to a high of 0.41.9 mg/L, at six of the seven sampling locations. This data is indicative of the ability of these soils to impact the underlying groundwater due to leachable concentrations of both chromium and nickel.

Summary

A soil boring program was implemented by BEI on July 22, 2004. These soil samples were collected in order to provide disposal characterization data in support of a future planned remedial measure, in addition to a limited further delineation of concentrations of nickel and chromium in soil. A total of seven soil borings were installed within the western portion of the subject property.

A review of the TCLP concentrations for chromium indicated that none of the samples exhibited TCLP concentrations approaching the 5.0 mg/L RCRA regulatory value. As nickel is not a characteristically hazardous compound, no RCRA regulatory value exists for this compound. Therefore, based upon these data, the soils to be removed at the site are not characteristically hazardous due to elevated concentrations of chromium.

Table 1
Summary of Soil Sample Data for Total Nickel and Chromium
with Comparison to the Regulatory Action Levels

Soil Sample Boring Location	Composite Interval	Total Chromium/ TCLP Chromium	Total Nickel/ TCLP Nickel
SP-7	3-4 feet	20.8/0.019 J	31/0.306
SP-7	7-8 feet	16.2/0.026 J	7.43/0.061
SP-6	3-3.5 feet	1250/0.107	10,100/41.9
SP-6	7-8 feet	27/0.017	290/1.738
S-17	3-3.5 feet	2810/0.773	153/0.209
S-17	7-8 feet	672/0.744	14/0.080
S-18	3-3.5 feet	7.02/ND	1830/14.8
S-18	7-8 feet	6.4/-	2900/-
S-19	3-3.5 feet	7.82/ND	3650/18.7
S-19	7-8 feet	5.29/-	240/-
Pit 1	3-3.5 feet	819/0.442	53.8/0.876
Pit 1	7-8 feet	112/0.157	7.12/0.079
Pit 2	3-3.5 feet	8.55/ND	10.6/0.022
Pit 2	7-8 feet	62.3/0.054	12.3/0.046 J
NYSDEC RSCOs & Background NE US/Class Ga Drinking Water Standards/Guidance Values	-	50/1.5-40 mg/kg (soil)/ 5.0 mg/L (TCLP) 0.050 mg/L groundwater	13/0.5 - 25 mg/kg (soil)/ TCLP -Not applicable 0.100 mg/L groundwater

NYSDEC RSCO - NYSDEC Recommended Soil Cleanup Objective, mg/kg.

NYSDEC Drinking Water Standards/Guidance Values for Class Ga potable groundwater.

Highlighted values indicate an exceedance of the RSCO/Background Concentrations Eastern US or potable groundwater standard or guidance value. J = estimated concentrations.

-- Not analyzed for TCLP as the total concentration data was less than 50 mg/kg.

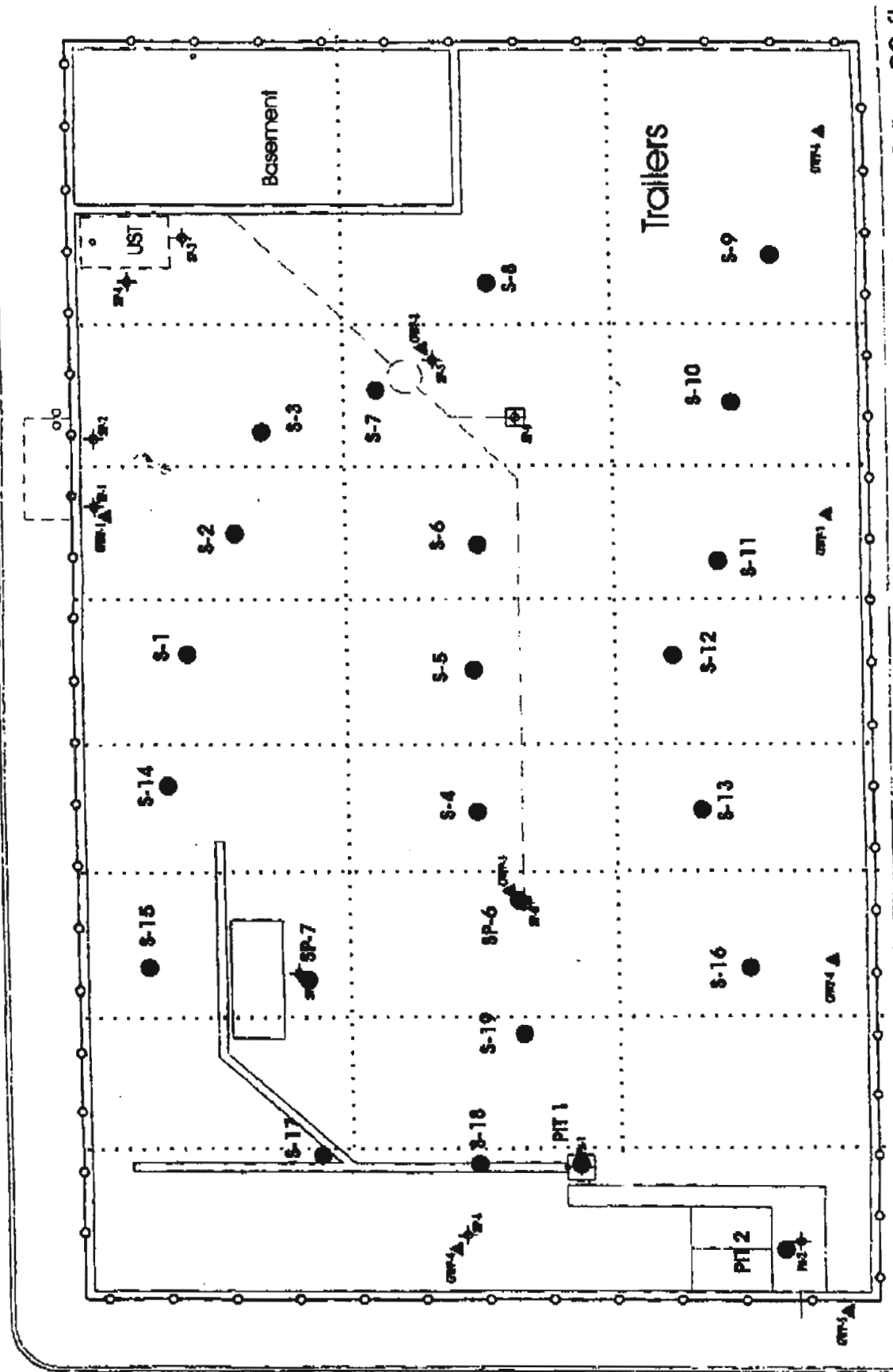
Total soil concentrations are in mg/kg. TCLP concentrations are mg/L. Allowable groundwater concentrations were compared to TCLP values.

See Figure 1 for soil sampling locations.

Attachments



Sewell Street



Scale - 1" = 20 ft

Base reference - Phase II Report April 2001
Boring Map Updated August 2004

- Soil sampling location
- Concrete panel/ sampling grid

Figure 1 - Soil Boring Location Map
48 Sewell Street, Village of Hempstead, New York

July 29, 2004

Berninger Environmental, Inc.
1615 9th Avenue
Bohemia, NY 11716

TEL: (631) 588-2251

FAX (631) 588-2926

RE: 48 Sewell Hempstead, N.Y.

Order No.: 0407197

Dear :

American Analytical Laboratories, LLC. received 14 samples on 7/22/2004 for the analyses presented in the following report.

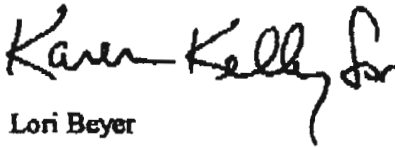
Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The limits provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,



Lori Beyer
Lab Director



56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (631) 454-6100 • FAX: (631) 454-8027

American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Project: 48 Sewell Hempstead, N.Y.
Lab Order: 0407197

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0407197-01A	SP-7 (3'-4')		7/22/2004	7/22/2004
0407197-01B	SP-7 (3'-4')		7/22/2004	7/22/2004
0407197-02A	SP-7 (7'-8')		7/22/2004	7/22/2004
0407197-02B	SP-7 (7'-8')		7/22/2004	7/22/2004
0407197-03A	SP-6 (3'-3.5')		7/22/2004	7/22/2004
0407197-03B	SP-6 (3'-3.5')		7/22/2004	7/22/2004
0407197-04A	SP-6 (7'-8')		7/22/2004	7/22/2004
0407197-04B	SP-6 (7'-8')		7/22/2004	7/22/2004
0407197-05A	S-17 (3'-3.5')		7/22/2004	7/22/2004
0407197-05B	S-17 (3'-3.5')		7/22/2004	7/22/2004
0407197-06A	S-17 (7'-8')		7/22/2004	7/22/2004
0407197-06B	S-17 (7'-8')		7/22/2004	7/22/2004
0407197-07A	S-18 (3'-3.5')		7/22/2004	7/22/2004
0407197-07B	S-18 (3'-3.5')		7/22/2004	7/22/2004
0407197-08A	S-18 (7'-8')		7/22/2004	7/22/2004
0407197-09A	S-19 (3'-3.5')		7/22/2004	7/22/2004
0407197-09B	S-19 (3'-3.5')		7/22/2004	7/22/2004
0407197-10A	S-19 (7'-8')		7/22/2004	7/22/2004
0407197-11A	Pit 1 (3'-3.5')		7/22/2004	7/22/2004
0407197-11B	Pit 1 (3'-3.5')		7/22/2004	7/22/2004
0407197-12A	Pit 1 (7'-8')		7/22/2004	7/22/2004
0407197-12B	Pit 1 (7'-8')		7/22/2004	7/22/2004
0407197-13A	Pit 2 (3'-3.5')		7/22/2004	7/22/2004
0407197-13B	Pit 2 (3'-3.5')		7/22/2004	7/22/2004
0407197-14A	Pit 2 (7'-8')		7/22/2004	7/22/2004
0407197-14B	Pit 2 (7'-8')		7/22/2004	7/22/2004

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS Bermuda Envoy		CONTACT: Jill H.		DATE: 7/24/04		TIME		SAMPLE(S) SEALED		YES / NO	
PROJECT LOCATION: 48 Sewell Hempstead NY		SAMPLE # - LOCATION		DATE		TIME		CORRECT CONTAINER(S)		YES / NO	
LABORATORY ID #		MATRIX TYPE		PRES.		SAMPLE # - LOCATION		DATE		TIME	
04071971		S G		10		SP-7 3-4'		7/24/04		7:45	
-2						SP-7 7-8'		7/24/04		7:45	
-3						SP-6 3-3.5'		7/24/04		7:45	
-4						SP-6 7-8'		7/24/04		7:45	
-5						S-17 3-3.5'		7/24/04		7:45	
-6						S-17 7-8'		7/24/04		7:45	
-7						S-18 3-3.5'		7/24/04		7:45	
-8						S-18 7-8'		7/24/04		7:45	
-9						S-19 3-3.5'		7/24/04		7:45	
-10						S-19 7-8'		7/24/04		7:45	
-11						PIT 1 3-3.5'		7/24/04		7:45	
-12						PIT 1 7-8'		7/24/04		7:45	
-13						PIT 2 3-3.5'		7/24/04		7:45	
-14						PIT 2 7-8'		7/24/04		7:45	
MATRIX S-SOIL; L-LIQUID; SL-SLUDGE; A-AIR; W-WIPE; P-PAINT CHIPS; B-BULK MATERIAL TYPE G-GRAB; C-COMPOSITE; SS-SPLIT SPOON											
RELINQUISHED BY (SIGNATURE) Burt Meyers				DATE 7/24/04				TIME 7:45			
RELINQUISHED BY (SIGNATURE) Burt Meyers				DATE 7/24/04				TIME 7:45			
RECEIVED BY LAB (SIGNATURE) [Signature]				DATE 7/24/04				TIME 7:45			
RECEIVED BY LAB (SIGNATURE) [Signature]				DATE 7/24/04				TIME 7:45			

WHITE OFFICE / CANARY LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

AMERICAN ANALYTICAL LABORATORIES, LLC

56 TOLEDO STREET

FARMINGDALE, NEW YORK 11735

TELEPHONE: (631) 454-6100 FAX: (631) 454-8027

DATA REPORTING QUALIFIERS

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. The flag is used: <ol style="list-style-type: none">(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3ug/L was calculated report as 3J. This flag is used when similar situations arise on any organic parameter i.e. Pesticide, PCBs and others.
B	Indicates the analyte was found in the blank as well as the sample report "10B".
E	Indicates the analytes concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide / PCB target analyte when there is >25% difference for detected concentrations between the two GC Columns. The higher of the two values is reported on Form I and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
H	Indicates sample was received and/or analyzed outside of The method allowable holding time

American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT:	Beminger Environmental, Inc.	Client Sample ID:	SP-7 (3'-4')
Lab Order:	0407197	Tag Number:	
Project:	48 Sewell Hempstead, N.Y.	Collection Date:	7/22/2004
Lab ID:	0407197-01A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW6010B		(SW3060A)		Analyst: JP
Chromium	20.8	0.475		mg/Kg-dry	1	7/27/2004 1:16:02 PM
Nickel	31.0	0.475		mg/Kg-dry	1	7/27/2004 1:16:02 PM
PERCENT MOISTURE		D2216				Analyst: JP
Percent Moisture	16.2	0		wt%	1	7/23/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spills Recovery outside accepted recovery limits
	I - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

Page 1 of 26

American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT:	Berninger Environmental, Inc.	Client Sample ID:	SP-7 (3'-4')
Lab Order:	0407197	Tag Number:	
Project:	48 Sewall Hempstead, N.Y.	Collection Date:	7/22/2004
Lab ID:	0407197-01B	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		SW1311/6010B		(SW1311)		Analyst: JP
Chromium	0.019	0.0500	J	mg/L	1	7/27/2004 11:53:55 AM
Nickel	0.306	0.0500		mg/L	1	7/27/2004 11:53:55 AM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT:	Beminger Environmental, Inc.	Client Sample ID:	SP-7 (7-8')
Lab Order:	0407197	Tag Number:	
Project:	48 Sewell Hempstead, N.Y.	Collection Date:	7/22/2004
Lab ID:	0407197-02A	Matrix:	SOIL

Analytes	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW88108		(SW3080A)		Analyst: JP
Chromium	16.2	0.362		mg/Kg-dry	1	7/27/2004 1:18:53 PM
Nickel	7.43	0.362		mg/Kg-dry	1	7/27/2004 1:18:53 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	5.08	0		wt%	1	7/23/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spikes Recovery outside accepted recovery limits
	I - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewell Hempstead, N.Y.
Lab ID: 0407197-02B

Client Sample ID: SP-7 (7'-8')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		SW1311/G010B		(SW1311)		Analyst: JP
Chromium	0.025	0.0500	J	mg/L	1	7/27/2004 11:56:27 AM
Nickel	0.061	0.0500		mg/L	1	7/27/2004 11:56:27 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
 Lab Order: 0407197
 Project: 48 Sewall Hempstead, N.Y.
 Lab ID: 0407197-03A

Client Sample ID: SP-6 (3'-3.5')
 Tag Number:
 Collection Date: 7/22/2004
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW6D10B		(SW3050A)		Analyst: JP
Chromium	1250	0.601		mg/Kg-dry	1	7/27/2004 1:27:18 PM
Nickel	10100	0.601		mg/Kg-dry	1	7/27/2004 1:27:18 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	37.0	0		wt%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
 L - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

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Date: 29-Jul-04

Client Sample ID: SP-6 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, MN, ZN		5W(311/5010B		(5W1311)		Analyst: JP
Chromium	0.107	0.0500		mg/L	1	7/27/2004 11:59:04 AM
Nickel	41.878	0.0500		mg/L	1	7/27/2004 11:59:04 AM

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-04A

Client Sample ID: SP-6 (7'-8')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW6010B		(SW3050A)		Analyst: JP
Chromium	27.0	0.366		mg/Kg-dry	1	7/27/2004 1:30:04 PM
Nickel	290	0.366		mg/Kg-dry	1	7/27/2004 1:30:04 PM
PERCENT MOISTURE		D2215				Analyst: IP
Percent Moisture	8.51	0		wt%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT:	Berninger Environmental, Inc.	Client Sample ID:	SP-6 (7-B)
Lab Order:	0407197	Tag Number:	
Project:	48 Sewell Hempstead, N.Y.	Collection Date:	7/22/2004
Lab ID:	0407197-04B	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN						
		SW1311/6010B		(SW1311)		Analyst: JP
Chromium	0.017	0.0500	J	mg/L	1	7/27/2004 12:08:49 PM
Nickel	1.738	0.0500		mg/L	1	7/27/2004 12:09:49 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

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P.12 TO: 915163578175 631-751-6434 FROM: LAHTI ENGINEERING AUG-4-2004 14:07

American Analytical Laboratories, LLC.

Date: 13-Aug-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewell Hempstead, N.Y.
Lab ID: 0407197-05A

Client Sample ID: S-17 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	29.2	0		wt%	1	7/23/2004
TOTAL METALS		SW6010B		(SW3050A)		Analyst: JP
Chromium	2810	0.610		mg/Kg-dry	1	7/27/2004 1:32:43 PM
Nickel	153	0.610		mg/Kg-dry	1	7/27/2004 1:32:43 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-05B

Client Sample ID: S-17 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		SW1311/6010B		(SW1311)		Analyst: JP
Chromium	0.773	0.0500		mg/L	1	7/27/2004 12:13:37 PM
Nickel	0.209	0.0500		mg/L	1	7/27/2004 12:13:37 PM

Qualifiers: ND - Not Detected at the Reporting Limit
I - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-06A

Client Sample ID: S-17 (7-8)
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SWSD105		(SW3050A)		Analyst: JP
Chromium	872	0.381		mg/Kg-dry	1	7/27/2004 2:03:23 PM
Nickel	14.0	0.381		mg/Kg-dry	1	7/27/2004 2:03:23 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	8.58	0		wt%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc. **Client Sample ID:** S-17 (7-8)
Lab Order: 0407197 **Tag Number:**
Project: 48 Sewall Hempstead, N.Y. **Collection Date:** 7/22/2004
Lab ID: 0407197-06B **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		SW1311/8010B (SW1311)		Analyst: JP		
Chromium	0.744	0.0500		mg/L	1	7/28/2004 4:00:52 PM
Nickel	0.060	0.0500		mg/L	1	7/28/2004 4:00:52 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-07A

Client Sample ID: S-18 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW6010B		(SW3050A)		Analyst: JP
Chromium	7.02	0.450		mg/Kg-dry	1	7/27/2004 2:07:44 PM
Nickel	1830	0.450		mg/Kg-dry	1	7/27/2004 2:07:44 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	16.8	0		wt%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewell Hempstead, N.Y.
Lab ID: 0407197-07B

Client Sample ID: S-18 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		SW1311/8010B		(SW1311)		Analyst: JP
Chromium	U	0.0500		mg/L	1	7/27/2004 12:16:33 PM
Nickel	14.843	0.0500		mg/L	1	7/27/2004 12:16:33 PM

Qualifiers: ND - Not Detected at the Reporting Limit
I - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-08A

Client Sample ID: S-18 (7'-8')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW6010B		(SW3050A)		Analyst: JP
Chromium	8.40	0.356		mg/Kg-dry	1	7/27/2004 2:12:42 PM
Nickel	2900	0.356		mg/Kg-dry	1	7/27/2004 2:12:42 PM
PERCENT MOISTURE		D2218				Analyst: IP
Percent Moisture	5.44	0		w%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Beminger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewell Hempstead, N.Y.
Lab ID: 0407197-09A

Client Sample ID: S-19 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DP	Date Analyzed
TOTAL METALS		SW8010B		(SW3050A)		Analyst: JP
Chromium	7.82	0.448		mg/Kg-dry	1	7/27/2004 2:17:01 PM
Nickel	3650	0.448		mg/Kg-dry	1	7/27/2004 2:17:01 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	17.9	0		wt%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
I - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.

Client Sample ID: S-19 (3'-3.5')

Lab Order: 0407197

Tag Number:

Project: 48 Sewell Hempstead, N.Y.

Collection Date: 7/22/2004

Lab ID: 0407197-09B

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		5W1311/60108		(5W1311)		Analyst: JP
Chromium	U	0.0500		mg/L	1	7/27/2004 12:19:00 PM
Nickel	18.777	0.0500		mg/L	1	7/27/2004 12:19:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Concentration Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-10A

Client Sample ID: S-19 (7'-8")
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW60108		(SW3060A)		Analyst: JP
Chromium	5.29	0.362		mg/Kg-dry	1	7/27/2004 2:21:03 PM
Nickel	240	0.362		mg/Kg-dry	1	7/27/2004 2:21:03 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	6.59	0		wt%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Date: 29-Jul-04

Client Sample ID: Pit 1 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW80108		(SW3050A)		Analyst: JP
Chromium	818	0.448		mg/Kg-dry	1	7/27/2004 2:24:00 PM
Nickel	53.8	0.448		mg/Kg-dry	1	7/27/2004 2:24:00 PM
PERCENT MOISTURE		02216				Analyst: IP
Percent Moisture	14.2	0		wt%	1	7/23/2004

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewell Hempstead, N.Y.
Lab ID: 0407197-11B

Client Sample ID: Pit 1 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		SW1311/8010B (SW1311)		Analyst: JP		
Chromium	0.442	0.0500		mg/L	1	7/27/2004 12:22:23 PM
Nickel	0.676	0.0500		mg/L	1	7/27/2004 12:22:23 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
+ - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-12A

Client Sample ID: Pit 1 (7'-8")
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW60108		(SW2050A)		Analyst: JP
Chromium	112	0.358		mg/Kg-dry	1	7/27/2004 2:28:36 PM
Nickel	7.12	0.358		mg/Kg-dry	1	7/27/2004 2:28:36 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	5.09	0		wt%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-12B

Client Sample ID: Pit 1 (7'-8')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		SW1311/6010B		(SW1311)		Analyst: JP
Chromium	0.157	0.0500		mg/L	1	7/27/2004 12:25:51 PM
Nickel	0.079	0.0500		mg/L	1	7/27/2004 12:25:51 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the accepted Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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P.25

10:91563578175

631-751-6434

FROM: LPHI ENGINEERING 14:10 14-9-2004

Date: 29-Jul-04

Client Sample ID: Pit 2 (3'-3.5')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW6010B		(SW3050A)		Analyst: JP
Chromium	0.55	0.305		mg/Kg-dry	1	7/27/2004 2:37:07 PM
Nickel	10.8	0.305		mg/Kg-dry	1	7/27/2004 2:37:07 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	8.52	0		wt%	1	7/23/2004

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Value above quantitation range

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American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT:	Berninger Environmental, Inc.	Client Sample ID:	Pit 2 (3'-3.5')
Lab Order:	0407197	Tag Number:	
Project:	48 Sewell Hempstead, N.Y.	Collection Date:	7/22/2004
Lab ID:	0407197-13B	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN						
		SW1311/0010B		(SW1311)		Analyst JP
Chromium	U	0.0500		mg/L	1	7/27/2004 12:30:21 PM
Nickel	0.022	0.0500	J	mg/L	1	7/27/2004 12:30:21 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	A - Value exceeds Maximum Contaminant Level	

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P.27 TO: 915163578175 631-751-6434 AUG-4-2004 14:11 FROM: LPHI ENGINEERING

American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewell Hempstead, N.Y.
Lab ID: 0407197-14A

Client Sample ID: Pit 2 (7'-8')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS		SW6010B		(SW3050A)		Analyst: JP
Chromium	62.3	0.419		mg/Kg-dry	1	7/27/2004 2:38:29 PM
Nickel	12.3	0.419		mg/Kg-dry	1	7/27/2004 2:38:29 PM
PERCENT MOISTURE		D2216				Analyst: IP
Percent Moisture	4.47	0		w%	1	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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P.28

10:915163578175

631-751-6434

PLUG-4-2004 14:11 FROM: LPHI ENGINEERING

American Analytical Laboratories, LLC.

Date: 29-Jul-04

CLIENT: Berninger Environmental, Inc.
Lab Order: 0407197
Project: 48 Sewall Hempstead, N.Y.
Lab ID: 0407197-14B

Client Sample ID: Pit 2 (7'-8')
Tag Number:
Collection Date: 7/22/2004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS PLUS CU, NI, ZN		SW1311/SD10B (SW1311)		Analyst: JP		
Chromium	0.054	0.0500		mg/L	1	7/27/2004 12:34:33 PM
Nickel	0.048	0.0500	J	mg/L	1	7/27/2004 12:34:33 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spills Recovery outside accepted recovery limits
R - RFD outside accepted recovery limits
E - Value above quantitation range

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Soil Boring Program

The soil boring program was implemented on October 15 and 16, 2003. The installation of the borings, selection of sampling locations and collection of composite soil samples was directed by Ms. Jill Haimson, PG, CGWP Senior Hydrogeologist. Soil borings were installed using a Geoprobe® drilling system. A Geoprobe is a vehicle-mounted machine that utilizes push technology to drive sampling tools into the subsurface to collect representative and discrete soil and groundwater samples at selected subsurface depths. Soil sampling locations were selected based upon providing adequate distribution of data across the eastern/central portions of the subject property. Each specific location was selected at a crack in the concrete, an area of degradation within the concrete or at the lowest lying area within the gridded area to be sampled. The composite sample was collected from the subsurface interval deemed to be most representative of the underlying fill material/native materials and any suspect layers, based upon physical field observations.

These soil borings were completed from 0-4 feet bgs using a four foot long macrocore. Each geoprobe macrocore sampler was decontaminated prior to and in between boring locations and the soil sample was collected inside a new dedicated disposal polyethylene sleeve. Concrete across the subject property was determined to range from three to six inches in thickness. The samples were submitted for analysis for total nickel and chromium. Laboratory analysis was performed by a New York State Department of Health ELAP-certified laboratory (American Analytical Lab) with appropriate chain-of-custody.

Piezometer Installations

Three one-inch diameter piezometers were installed at the subject property (one upgradient and two downgradient, with respect to projected regional groundwater flow direction). Based upon a depth to groundwater of approximately 12.5 feet bgs, these piezometers were installed to a depth of 20 feet bgs. This allowed for a completion of the well screen approximately two feet above and eight feet below the groundwater table interface. Subsequent to installation, BEI's subcontractor surveyed the elevations of the top of the casings to 0.01 foot; this calculation was performed to an arbitrary datum at the center of the site. Two readings of depth to water measurements were performed by BEI. A groundwater elevation map (October 17, 2003) was produced depicting groundwater flow direction (See Figure 2). Based upon an evaluation of this groundwater flow map, localized groundwater flow direction in October 2003 was to the southwest.

Localized groundwater flow direction is consistent with the regional groundwater flow direction established by Nassau County Department of Health (NCDH) groundwater elevation maps. The horizontal groundwater flow gradient has been determined to be 0.0015 ft./ft. based upon a slope

of 0.15 ft over a distance of 100 feet at the subject property. Using a regionally established average value for horizontal hydraulic conductivity for the Upper Glacial aquifer of 270 ft/day and an average porosity of 0.30, a horizontal groundwater flow velocity of 1.35 feet per day is calculated. This calculation is somewhat higher than the average literature regionally-established groundwater flow rates for the Upper Glacial aquifer (Perlmutter and Geraghty, 1963) of approximately one foot per day.

Analytical Testing Results of Soil Sampling

In order to evaluate the environmental condition of the soils collected from approximately 0-4 feet bgs at the subject property, comparison was made of the analytical testing data to the New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Clean-up Objectives (RSCOs) provided in the NYSDEC Technical Administrative Guidance Memorandum (TAGM) 94-4046, revised April 1995. Summary data tables (Tables 1 and 2) are provided as an attachment that detail the composite sampling interval, the field characteristics, lithology encountered and the analytical test results for total nickel and chromium.

Only four exceedances of the NYSDEC RSCOs were noted at four sampling locations (S-1 at 14.4 mg/kg; S-4 at 13.4 mg/kg; S-8 at 40.9 mg/kg; and 597 mg/kg at S-15) for total nickel, compared to its RSCO of 13 mg/kg. Only two of these locations (S-8 and S-15) reported significant exceedances as same were between 3 and 46 times the RSCO. These two locations are proximate to suspect site features such as the former trench drain (S-15) and a sump pit (S-8).

No exceedances of the RSCO of 50 mg/kg were reported for total chromium at any of the sixteen soil samples collected and analyzed.

Summary

A soil boring program was implemented by BEI on October 15 and 16, 2003. These soil borings were performed in order to collect shallow soil samples and provide additional data on areas of the property (central and eastern portions) not previously investigated. These areas were not part of the former "wet" operations and any subsurface soil impacts present would be due to inadvertent releases that may have penetrated the concrete floor in these areas. A total of sixteen soil borings were installed within a gridded area. Sampling locations were focused on cracks in the concrete, areas of concrete degradation or the lowest lying area within each grid. Composite samples were collected from the subsurface interval deemed to be most representative of the underlying fill material/native materials and any suspect layers, based upon physical field observations.

[REDACTED]
[REDACTED]
November 5, 2003
[REDACTED]

Of the sixteen soil samples analyzed for total nickel and chromium, only two significant exceedances of the NYSDEC RSCOs were noted. Sampling locations S-8 and S-15 reported concentrations of total nickel between 3 and 46 times the NYSDEC RSCO. These two locations are proximate to suspect site features such as the former trench drain (S-15) and a sump pit (S-8). No exceedances of the RSCO of 50 mg/kg were reported for total chromium at any of the sixteen soil samples collected and analyzed.

Three one-inch diameter piezometers were installed at the subject property (one upgradient and two downgradient) to allow for a determination of localized groundwater flow direction. Groundwater elevation mapping for October 17, 2003 indicates a localized groundwater flow direction to the southwest. This is consistent with the regional groundwater flow direction. Based upon the slope of groundwater across the subject property, a horizontal groundwater flow velocity of 1.35 feet per day was calculated; comparative but slightly higher than the regionally-established groundwater flow rates for the Upper Glacial aquifer of one foot per day.

**Table 1 - Summary of Soil Boring Data
48 Sewell Street, Village of Hempstead, New York**

Soil Boring No.	Sampling Interval	Description
S-1	1 - 2 Feet Composite	Concrete; Light brown sand and organic fill; followed by black fine sand and silt.
S-2	1 - 3 Feet Composite	Concrete; Light brown sand and organic fill with clay; followed by black fine sand and silt organic fill.
S-3	1 - 3 Feet Composite	Concrete; Light brown sand with silt; followed by dark coarse sand with silt.
S-4	2 - 3.5 Feet Composite	Concrete; Light brown coarse sand with silt fill; followed by black sludge layer and cleaner coarse sand.
S-5	1 - 3 Feet Composite	Concrete; Medium brown sand with silt fill; followed by black fine sand fill and inter-bedded wood.
S-6	2 - 4 Feet Composite	Concrete; black sand with clay and silt fill.
S-7	1 - 3 Feet Composite	Concrete; Light brown sand grading to black fine organic fill with clay; mixed with fine sand and silt.
S-8	1 - 3 Feet Composite	Concrete; Light brown uniform sand grading to fine sand and silt.
S-9	1 - 4 Feet Composite	Concrete; Light brown uniform medium to coarse sand; followed by black sludge organic fill layer.
S-10	1 - 3 Feet Composite	Concrete; Light brown uniform medium to coarse sand; followed by dark organic fill layer with clay and silt.
S-11	1 - 3 Feet Composite	Concrete; coarse sand grading to black fine organic fill with coarse sand; mixed with organic fill.
S-12	1 - 3 Feet Composite	Concrete; coarse sand grading to black fine organic fill with clayey layer.
S-13	1 - 3 Feet Composite	Concrete; coarse sand grading to six inch green layer and brown fine organic fill.
S-14	1 - 3 Feet Composite	Concrete; Dark brown fine organic fill with gravel.
S-15	2 - 5 Feet Composite	Concrete; Dark brown fine organic fill with coarse sand and gravel.
S-16	2 - 4 Feet Composite	Concrete; Dark brown organic fill material; no sand

See Figure 1 for the locations of the soil borings.

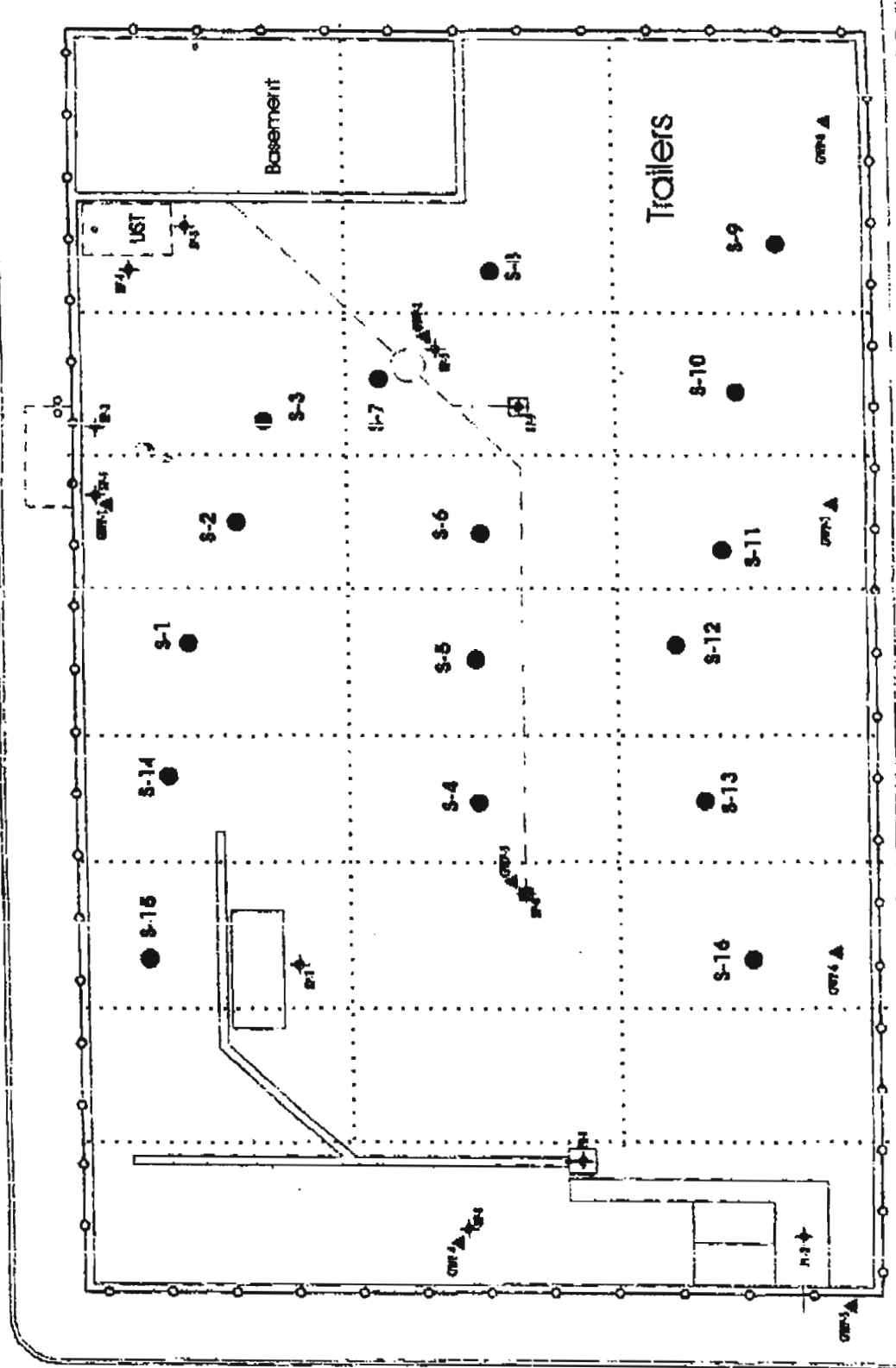
Table 2
Summary of Soil Sample Data for Total Nickel and Chromium
with Comparison to the Regulatory Action Levels

Soil Sample Boring Location	Composite Interval	Total Nickel, mg/kg	Total Chromium, mg/kg
S-1	1 - 2 Feet Composite	14.4	10.0
S-2	1 - 3 Feet Composite	5.02	5.29
S-3	1 - 3 Feet Composite	5.29	6.08
S-4	2 - 3.5 Feet Composite	13.4	6.78
S-5	1 - 3 Feet Composite	4.29	5.70
S-6	2 - 4 Feet Composite	5.65	5.86
S-7	1 - 3 Feet Composite	4.17	6.16
S-8	1 - 3 Feet Composite	40.9	4.72
S-9	1 - 4 Feet Composite	4.73	6.63
S-10	1 - 3 Feet Composite	4.66	5.13
S-11	1 - 3 Feet Composite	7.29	4.91
S-12	1 - 3 Feet Composite	5.56	6.09
S-13	1 - 3 Feet Composite	6.60	8.19
S-14	1 - 3 Feet Composite	7.06	8.37
S-15	2 - 5 Feet Composite	597	5.34
S-16	2 - 4 Feet Composite	10.9	4.73
NYSDEC RSCO/Background Concentrations Eastern United States	--	13/0.5 - 25	50/1.5-40

NYSDEC RSCO - NYSDEC Recommended Soil Cleanup Objective, mg/kg.
Highlighted values indicate an exceedance of the RSCO/Background Concentrations Eastern US.



Sewell Street



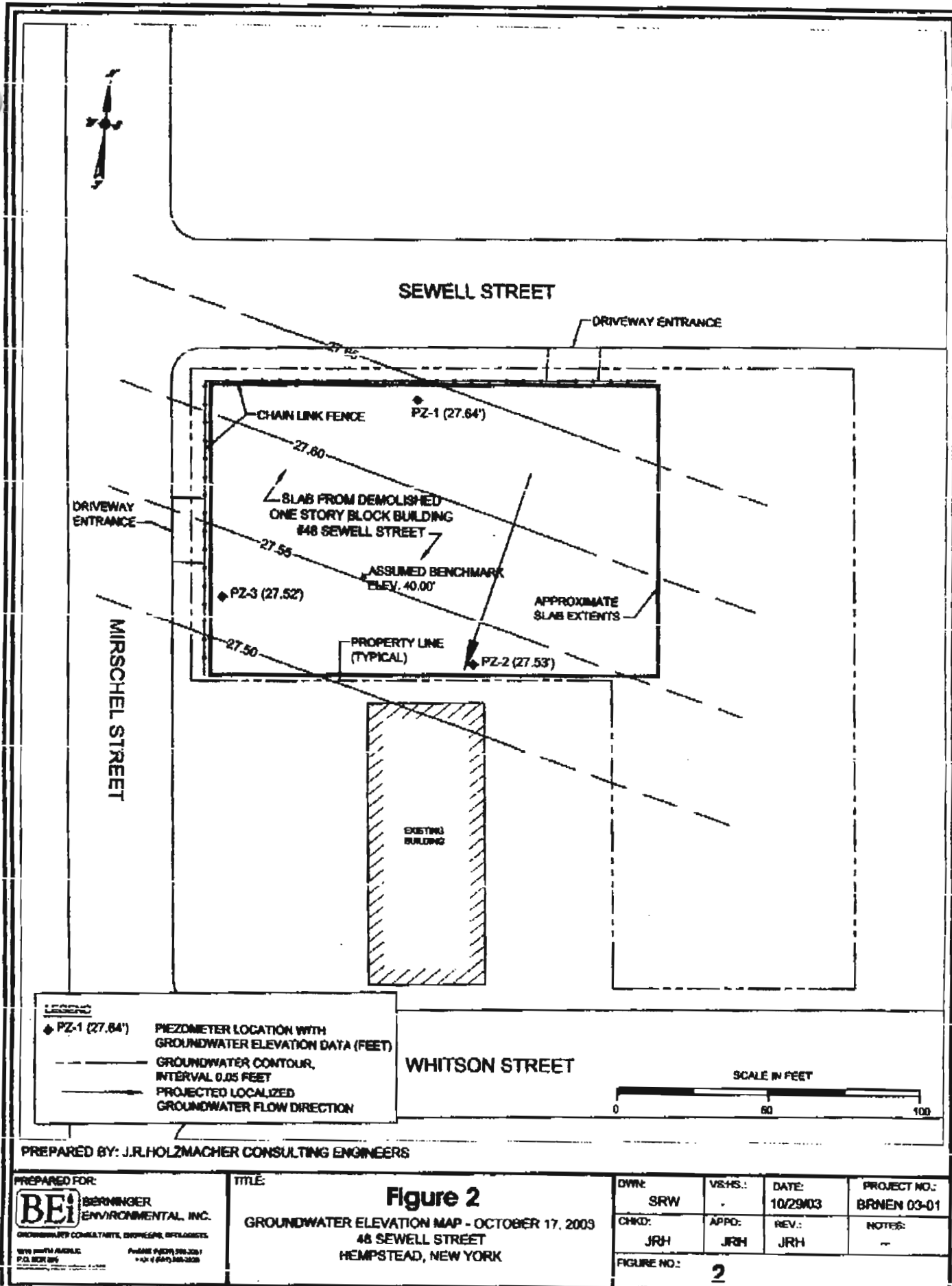
Mitchell Street

Scale - 1" = 20 ft

Base reference - Phase II Report April 2001

- Soil Sampling Location
- Concrete panel/ sampling grid

Figure 1 - Soil Boring Location Map



CLIENT: Berninger Environmental, Inc.
Project: 48 Sewell St. Hempstead, NY
Lab Order: 0310095

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0310095-01A	S-1 (1-2' comp)		10/15/2003	10/16/2003
0310095-02A	S-2 (1-3' comp)		10/15/2003	10/16/2003
0310095-03A	S-3 (1-3' comp)		10/15/2003	10/16/2003
0310095-04A	S-4 (2-3.5' comp)		10/15/2003	10/16/2003
0310095-05A	S-5 (1-3' comp)		10/15/2003	10/16/2003
0310095-06A	S-6 (2-4' comp)		10/15/2003	10/16/2003
0310095-07A	S-7 (1-3' comp)		10/15/2003	10/16/2003
0310095-08A	S-8 (1-3' comp)		10/15/2003	10/16/2003
0310095-09A	S-9 (1-4' comp)		10/15/2003	10/16/2003
0310095-10A	S-10 (1-3' comp)		10/15/2003	10/16/2003
0310095-11A	S-11 (1-3' comp)		10/15/2003	10/16/2003
0310095-12A	S-12 (1-3' comp)		10/15/2003	10/16/2003
0310095-13A	S-13 (1-3' comp)		10/16/2003	10/16/2003
0310095-14A	S-14 (1-3' comp)		10/16/2003	10/16/2003
0310095-15A	S-15 (2-5' comp)		10/16/2003	10/16/2003
0310095-16A	S-16 (2-4' comp)		10/16/2003	10/16/2003

AMERICAN ANALYTICAL LABORATORIES, INC.

56 TOLEDO STREET

FARMINGDALE, NEW YORK 11735

TELEPHONE: (631) 454-6100

FAX: (631) 454-8027

DATA REPORTING QUALIFIERS

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. The flag is used: <ol style="list-style-type: none">(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3ug/L was calculated report as 3J. This flag is used when similar situations arise on any organic parameter i.e. Pesticide, PCBs and others.
B	Indicates the analyte was found in the blank as well as the sample report "10B".
E	Indicates the analytes concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide / PCB target analyte when there is >25% difference for detected concentrations between the two GC Columns. The higher of the two values is reported on Form I and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

American Analytical Laboratories, Inc.

Date: 21-Oct-03

CLIENT: Berninger Environmental, Inc.
Project: 48 Sewell St. Hempstead, NY

Lab Order: 0310095

Lab ID: 0310095-01 **Collection Date:** 10/15/2003

Client Sample ID: S-1 (1-2' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B	(SW3050A)			Analyst: JP
Chromium	10.0	0.356		mg/Kg	1	10/21/2003 1:59:00 PM
Nickel	14.4	0.356		mg/Kg	1	10/21/2003 1:59:00 PM

Lab ID: 0310095-02 **Collection Date:** 10/15/2003

Client Sample ID: S-2 (1-3 comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B	(SW3050A)			Analyst: JP
Chromium	5.29	0.346		mg/Kg	1	10/21/2003 2:01:50 PM
Nickel	5.02	0.346		mg/Kg	1	10/21/2003 2:01:50 PM

Lab ID: 0310095-03 **Collection Date:** 10/15/2003

Client Sample ID: S-3 (1-3' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B	(SW3050A)			Analyst: JP
Chromium	6.08	0.368		mg/Kg	1	10/21/2003 2:04:41 PM
Nickel	5.29	0.368		mg/Kg	1	10/21/2003 2:04:41 PM

Lab ID: 0310095-04 **Collection Date:** 10/15/2003

Client Sample ID: S-4 (2-3.5' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B	(SW3050A)			Analyst: JP
Chromium	6.78	0.388		mg/Kg	1	10/21/2003 2:08:39 PM
Nickel	13.4	0.388		mg/Kg	1	10/21/2003 2:08:39 PM

Lab ID: 0310095-05 **Collection Date:** 10/15/2003

Client Sample ID: S-5 (1-3' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B	(SW3050A)			Analyst: JP
Chromium	5.70	0.353		mg/Kg	1	10/21/2003 2:13:40 PM
Nickel	4.29	0.353		mg/Kg	1	10/21/2003 2:13:40 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

American Analytical Laboratories, Inc.

Date: 21-Oct-03

CLIENT: Berninger Environmental, Inc.
Project: 48 Sewell St. Hempstead, NY

Lab Order: 0310095

Lab ID: 0310095-06 **Collection Date:** 10/15/2003

Client Sample ID: S-6 (2-4' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	5.86	0.337		mg/Kg	1	10/21/2003 2:16:44 PM
Nickel	5.65	0.337		mg/Kg	1	10/21/2003 2:16:44 PM

Lab ID: 0310095-07 **Collection Date:** 10/15/2003

Client Sample ID: S-7 (1-3' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	6.16	0.400		mg/Kg	1	10/21/2003 2:25:13 PM
Nickel	4.17	0.400		mg/Kg	1	10/21/2003 2:25:13 PM

Lab ID: 0310095-08 **Collection Date:** 10/15/2003

Client Sample ID: S-8 (1-3' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	4.72	0.383		mg/Kg	1	10/21/2003 2:27:25 PM
Nickel	40.9	0.383		mg/Kg	1	10/21/2003 2:27:25 PM

Lab ID: 0310095-09 **Collection Date:** 10/15/2003

Client Sample ID: S-9 (1-4' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	6.63	0.352		mg/Kg	1	10/21/2003 2:51:19 PM
Nickel	4.73	0.352		mg/Kg	1	10/21/2003 2:51:19 PM

Lab ID: 0310095-10 **Collection Date:** 10/15/2003

Client Sample ID: S-10 (1-3' comp) **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	5.13	0.389		mg/Kg	1	10/21/2003 2:53:45 PM
Nickel	4.66	0.389		mg/Kg	1	10/21/2003 2:53:45 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

American Analytical Laboratories, Inc.

Date: 21-Oct-03

CLIENT: Berninger Environmental, Inc.
Project: 48 Sewell St. Hempstead, NY

Lab Order: 0310095

Lab ID: 0310095-11
Client Sample ID: S-11 (1-3' comp)

Collection Date: 10/15/2003
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	4.91	0.362		mg/Kg	1	10/21/2003 2:56:53 PM
Nickel	7.29	0.362		mg/Kg	1	10/21/2003 2:56:53 PM

Lab ID: 0310095-12
Client Sample ID: S-12 (1-3' comp)

Collection Date: 10/15/2003
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	6.09	0.360		mg/Kg	1	10/21/2003 2:59:10 PM
Nickel	5.56	0.360		mg/Kg	1	10/21/2003 2:59:10 PM

Lab ID: 0310095-13
Client Sample ID: S-13 (1-3' comp)

Collection Date: 10/16/2003
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	8.19	0.341		mg/Kg	1	10/21/2003 3:02:04 PM
Nickel	6.60	0.341		mg/Kg	1	10/21/2003 3:02:04 PM

Lab ID: 0310095-14
Client Sample ID: S-14 (1-3' comp)

Collection Date: 10/16/2003
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	8.37	0.389		mg/Kg	1	10/21/2003 3:04:06 PM
Nickel	7.06	0.389		mg/Kg	1	10/21/2003 3:04:06 PM

Lab ID: 0310095-15
Client Sample ID: S-15 (2-5' comp)

Collection Date: 10/16/2003
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	5.34	0.352		mg/Kg	1	10/21/2003 3:07:02 PM
Nickel	597	0.352		mg/Kg	1	10/21/2003 3:07:02 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

American Analytical Laboratories, Inc.**Date:** 21-Oct-03**CLIENT:** Berninger Environmental, Inc.
Project: 48 Sewell St. Hempstead, NY**Lab Order:** 0310095**Lab ID:** 0310095-16**Collection Date:** 10/16/2003**Client Sample ID:** S-16 (2-4' comp)**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		SW6010B		(SW3050A)		Analyst: JP
Chromium	4.73	0.338		mg/Kg	1	10/21/2003 3:09:00 PM
Nickel	10.9	0.338		mg/Kg	1	10/21/2003 3:09:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

3
Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

5/14/03

Custody Document: P1929

Received: 4/29/03 15:21

Sampled by: Victor

Client: Universal Testing & Insp Svc Inc 84895

82 Otis Street
West Babylon,
NY 11704

Project: UTIS

#48 Sewell Street
Hempstead,
NY

Manager: Larry Jr.

Respectfully submitted,



Quality Assurance Officer

NYS Lab ID # 10969

NJ Cert. # 73812

CT Cert. # PH0645

MA Cert. # NY061

PA Cert. # 68-535

NH Cert. # 252592-BA

RI Cert. # 161

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Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

5/14/03

Mercury by Method SW846 7470/7471-EPA 245

Sample: P1929-1

Client Sample ID: West Side South #1

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 80.5%

Remarks:

Analyzed Date: 5/13/03

Preparation Date(s): 5/13/03

Analytical Results

Gas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0043	0.17	ppm	

Sample: P1929-2

Client Sample ID: West Side South #2

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 86.2%

Remarks:

Analyzed Date: 5/13/03

Preparation Date(s): 5/13/03

Analytical Results

Gas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0040	0.013	ppm	

Sample: P1929-3

Client Sample ID: West Side South #3

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 81%

Remarks:

Analyzed Date: 5/13/03

Preparation Date(s): 5/13/03

Analytical Results

Gas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0043	1.09	ppm	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

5/14/03

Mercury by Method SW846 7470/7471-EPA 245

Sample: P1929-4

Client Sample ID: West Side South #4

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 90.2%

Remarks:

Analyzed Date: 5/13/03

Preparation Date(s): 5/13/03

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0039	0.068	ppm	

Sample: P1929-5

Client Sample ID: South Side #5

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 90%

Remarks:

Analyzed Date: 5/13/03

Preparation Date(s): 5/13/03

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0039	0.017	ppm	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

5/14/03

RCRA Metals by Method SW846 6010/EPA 200.7

Sample: P1929-1

Client Sample ID: West Side South #1

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 80.5%

Remarks:

Analyzed Date: 5/2/03

Preparation Date(s) : 5/13/03 5/1/03

Analytical Results

Gas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	1.18	2.56	ppm	
7440-39-3	Barium	0.073	95.8	ppm	
7440-43-9	Cadmium	0.085	0.74	ppm	
7440-47-3	Chromium	0.12	158	ppm	
7439-92-1	Lead	0.29	114	ppm	
7782-49-2	Selenium	0.41	0.41	ppm	U
7440-22-4	Silver	0.037	0.30	ppm	

Sample: P1929-2

Client Sample ID: West Side South #2

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 86.2%

Remarks:

Analyzed Date: 5/2/03

Preparation Date(s) : 5/13/03 5/1/03

Analytical Results

Gas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	1.06	1.06	ppm	U
7440-39-3	Barium	0.066	8.78	ppm	
7440-43-9	Cadmium	0.077	1.16	ppm	
7440-47-3	Chromium	0.11	93.9	ppm	
7439-92-1	Lead	0.26	18.2	ppm	
7782-49-2	Selenium	0.37	0.37	ppm	U
7440-22-4	Silver	0.033	2.10	ppm	



Environmental Testing Laboratories, Inc.

268 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

5/14/03

RCRA Metals by Method SW846 6010/EPA 200.7

Sample: P1929-3

Client Sample ID: West Side South #3

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 81%

Remarks:

Analyzed Date: 5/2/03

Preparation Date(s): 5/13/03 5/1/03

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	1.20	2.63	ppm	
7440-39-3	Barium	0.074	95.2	ppm	
7440-43-9	Cadmium	0.086	1.20	ppm	
7440-47-3	Chromium	0.12	69.7	ppm	
7439-92-1	Lead	0.30	333	ppm	
7782-49-2	Selenium	0.42	0.42	ppm	U
7440-22-4	Silver	0.037	0.83	ppm	

Sample: P1929-4

Client Sample ID: West Side South #4

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 90.2%

Remarks:

Analyzed Date: 5/2/03

Preparation Date(s): 5/13/03 5/1/03

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	1.00	1.00	ppm	U
7440-39-3	Barium	0.062	22.1	ppm	
7440-43-9	Cadmium	0.072	0.66	ppm	
7440-47-3	Chromium	0.10	39.4	ppm	
7439-92-1	Lead	0.25	20.4	ppm	
7782-49-2	Selenium	0.35	0.35	ppm	U
7440-22-4	Silver	0.031	0.25	ppm	



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5/14/03

RCRA Metals by Method SW846 6010/EPA 200.7

Sample: P1929-5

Client Sample ID: South Side #5

Matrix: Soil

Type: Grab

Collected: 4/29/03 11:00

% Solid: 90%

Remarks:

Analyzed Date: 5/2/03

Preparation Date(s) : 5/13/03 5/1/03

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	1.04	1.04	ppm	U
7440-39-3	Barium	0.064	10.9	ppm	
7440-43-8	Cadmium	0.075	0.42	ppm	
7440-47-3	Chromium	0.11	59.8	ppm	
7439-92-1	Lead	0.26	8.76	ppm	
7782-49-2	Selenium	0.36	0.36	ppm	U
7440-22-4	Silver	0.032	0.24	ppm	



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5/14/03

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

- U - The analytical result is a non-detect.
- J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.
- B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- E - The concentration of the analyte exceeded the calibration range of the instrument.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution. In the case of a surrogate this flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

- B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
- U - Entered when the analyte was analyzed for, but not detected.

Q - Qualifier specific entries and their meanings are as follows:

- E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

- A - Flame AA
- AS - Semi-automated Spectrophotometric
- AV - Automated Cold Vapor AA
- C - Manual Spectrophotometric
- F - Furnace AA
- P - ICP
- T - Titrimetric

OTHER QUALIFIERS

- ND - Not Detected
- NA - Not Applicable
- NR - Not Required
- * - Outside Expected Range (NYCDEP Table 1/11 or Surrogate Limits)
- x - Outside Expected Range

OTHER

- All soil and sediment samples are reported on a dry weight basis.



Environmental Testing Laboratories, Inc.

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Phone - 631-249-1456 Fax - 631-249-8344

05/15/2003

Custody Document: P1931

Received: 05/05/2003 10:42

Sampled by: Victor

Client: Universal Testing & Insp Svc Inc 84895

82 Otis Street
West Babylon,
NY 11704

Project: UTIS

#48 Sewell Street
Hempstead,
NY

Manager: Larry Jr.

Respectfully submitted,



Quality Assurance Officer

NYS Lab ID # 10969

NJ Cert. # 73812

CT Cert. # PH0645

MA Cert. # NY061

PA Cert. # 68-535

NH Cert. # 252592-BA

RI Cert. # 161

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05/15/2003

Mercury by Method SW846 7470/7471-EPA 245

Sample: P1931-1

Client Sample ID: Southside #6

Matrix: Soil

Type: Grab

Collected: 04/29/2003

% Solid: 90.6%

Remarks:

Analyzed Date: 05/15/2003

Preparation Date(s) : 05/13/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0039	0.0057	ppm	

Sample: P1931-2

Client Sample ID: Southside #7

Matrix: Soil

Type: Grab

Collected: 04/29/2003

% Solid: 86.7%

Remarks:

Analyzed Date: 05/15/2003

Preparation Date(s) : 05/13/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0040	0.0073	ppm	

Sample: P1931-3

Client Sample ID: Southside #8

Matrix: Soil

Type: Grab

Collected: 04/29/2003

% Solid: 89.4%

Remarks:

Analyzed Date: 05/15/2003

Preparation Date(s) : 05/13/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0038	0.018	ppm	



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05/15/2003

RCRA Metals by Method SW846 6010/EPA 200.7

Sample: P1931-1

Client Sample ID: Southside #6

Matrix: Soil

Type: Grab

Collected: 04/29/2003

% Solid: 90.6%

Remarks:

Analyzed Date: 05/07/2003

Preparation Date(s) : 05/13/2003 05/07/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.35	0.35	ppm	U
7440-39-3	Barium	0.042	3.16	ppm	
7440-43-9	Cadmium	0.031	0.43	ppm	
7440-47-3	Chromium	0.17	3.85	ppm	
7439-92-1	Lead	0.18	3.60	ppm	
7782-49-2	Selenium	0.45	0.45	ppm	U
7440-22-4	Silver	0.10	0.10	ppm	U

Sample: P1931-2

Client Sample ID: Southside #7

Matrix: Soil

Type: Grab

Collected: 04/29/2003

% Solid: 86.7%

Remarks:

Analyzed Date: 05/07/2003

Preparation Date(s) : 05/13/2003 05/07/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.38	0.38	ppm	U
7440-39-3	Barium	0.045	2.89	ppm	
7440-43-9	Cadmium	0.034	0.49	ppm	
7440-47-3	Chromium	0.18	2.40	ppm	
7439-92-1	Lead	0.19	1.81	ppm	
7782-49-2	Selenium	0.49	0.49	ppm	U
7440-22-4	Silver	0.11	0.11	ppm	U



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RCRA Metals by Method SW846 6010/EPA 200.7

Sample: P1931-3

Client Sample ID: Southside #8

Matrix: Soil

Type: Grab

Collected: 04/29/2003

% Solid: 89.4%

Remarks:

Analyzed Date: 05/07/2003

Preparation Date(s): 05/13/2003 05/07/2003

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.37	0.37	ppm	U
7440-39-3	Barium	0.043	3.68	ppm	
7440-43-9	Cadmium	0.032	0.70	ppm	
7440-47-3	Chromium	0.17	6.67	ppm	
7439-92-1	Lead	0.18	7.17	ppm	
7782-49-2	Selenium	0.46	0.46	ppm	U
7440-22-4	Silver	0.11	0.11	ppm	U



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05/15/2003

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- E - The concentration of the analyte exceeded the calibration range of the instrument.
- D - This flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

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U - Entered when the analyte was analyzed for, but not detected.

Q - Qualifier specific entries and their meanings are as follows:

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M - (Method) qualifiers are as follows:

- A - Flame AA
- AS - Semi-automated Spectrophotometric
- AV - Automated Cold Vapor AA
- C - Manual Spectrophotometric
- F - Furnace AA
- P - ICP
- T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected

NA - Not Applicable

NR - Not Required

* - Outside Expected Range (NYCDEP Table VII or Surrogate Limits)

x - Outside Expected Range

OTHER

- All soil and sediment samples are reported on a dry weight basis.



Environmental Site Assessment

October 16, 2000

00-408

conducted at:

**Parking Lot (Tractor Trailer Storage)
46 Sewell Street
Hempstead, New York
Nassau County Tax Map Designation: Section 35; Block 630; Lots 21-28**

prepared for:

**Scott Miller Landscape Maintenance, Inc.
69 Woodcock Road
Westbury, NY**

report user:

**Scott Miller Landscape Maintenance, Inc.
69 Woodcock Road
Westbury, NY**

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PLATES

Plate #1 Project Location Map (USGS Quadrangle), Hempstead

APPENDIX

Appendix A: Federal Government
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1. INTRODUCTION

1.1 Purpose

This assessment is intended, where applicable, to satisfy the requirements of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments, as published in ASTM F 1527. Banks, insurance companies, and prospective property purchasers require an understanding of existing and past property conditions and uses in order to assess the potential liabilities associated with a property. This assessment has been completed by a qualified environmental professional as defined in ASTM Standards. The objectives of this Environmental Site Assessment are stated as follows:

- Establish a basis of understanding of the past and present land uses of the subject property in order to identify potential environmental and/or public health risks.
- Establish a basis of understanding of the past and present surrounding land uses and environmental resources in order to determine their impact on the environmental quality of the subject property.
- Identify any known or potential items in noncompliance with applicable Local, State, or Federal laws and regulations, and subsequently specify how these items can be brought into compliance.
- Identify, to the extent feasible, *recognized environmental conditions* in connection with the subject and surrounding properties. *Recognized environmental conditions* are defined by ASTM as follows:

The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

1.2 Special Terms and Conditions

It is the responsibility of the *user* of this report (the party seeking to use this Environmental Site Assessment; i.e., the purchaser, lender, owner, potential tenant, or property manager) to provide certain information utilized in the report. This would include reporting of any *environmental liens* (for example, consideration against the property for response action, cleanup, or remediation of hazardous substances or petroleum products) encumbering the property or specialized knowledge or experience that would assist in identifying *recognized environmental conditions*.

The standard of care is uniform in each Phase I Environmental Site Assessment (ESA); however, the availability of information, relevance, and quality of information can vary. As per ASTM Standards, the "environmental professional is not required to verify independently the information provided, but may rely on information provided unless he or she has actual knowledge that certain information is incorrect or unless it is obvious that certain information is incorrect based on other information obtained in the Phase I ESA or otherwise actually known to the environmental professional." Personnel involved in report preparation will make judgments on the accuracy of user provided information and conduct additional research as necessary in order to meet the requirement of identifying *recognized environmental conditions* on the subject property.

ASTM provides a number of standard sources of historic information. Kosuri Engineering & Consulting, P.C. will seek to research as many sources of historic information as may be available as a means of cross confirmation. However, according to ASTM's Standard Practice for Environmental Site Assessments (E 1527), the "environmental professional is required to review only record information that is *reasonably ascertainable*," whereby *reasonably ascertainable* is defined as "(1) information that is publicly available, (2) information that is obtainable from its source within *reasonable time* and cost constraints, and (3) information that is *practically reviewable*." ASTM defines *reasonable time constraints* as information being provided by the source within twenty days of receiving a written request. *Practically reviewable* means that "the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary analysis of irrelevant data."

Based on ASTM Standards, the Phase I ESA is not intended to include any sampling and analysis of materials associated with the subject property (i.e., soil, water, air, or building materials). However, as it has been noted by Kosuri Engineering & Consulting, P.C. that certain non-scope issues are of concern to the user, a limited sampling and analysis program was performed (lead surface paints and friable asbestos). In addition, radon test results conducted by the USEPA Office of Radiation and Indoor Air in conjunction with the USGS were reviewed.

1.3 Limitations and Exceptions

This Phase I Environmental Site Assessment was conducted solely to permit Kosuri Engineering & Consulting, P.C. to render a professional opinion about the likelihood of regulated contaminants being present on, in, or beneath the site in question at the time services were conducted. No matter how thorough a Phase I Environmental Site Assessment study may be, findings derived from its conduct are limited, and Kosuri Engineering & Consulting, P.C. cannot know or state for an absolute fact that a site is unaffected by reportable quantities of regulated contaminants. Furthermore, even if Kosuri Engineering & Consulting, P.C. believes that reportable quantities of regulated contaminants are not present, there still exists a risk that such contaminants may be present or may migrate to the site after the study is complete. This assessment is dated, and is only valid for activities which occurred prior to the date of the site visit. Activities, liabilities, and alterations to the subject property subsequent to the date of the site visit are not included in the assessment.

ASTM has developed a variety of prescriptive professional practice standards (standard practices and standard guides), that identify specific methods professionals could or should use to attain results. Such prescriptive professional practice standards fail to consider the unique needs of a client, the client's project-specific expectations, or the requirements and obligations of the professionals engaged to provide service, nor do they consider more effective techniques that may have been developed subsequent to the issuance of such standards. These ASTM standards are generic and general in nature and, therefore, do not constitute, nor are they tantamount to the applicable standard of care, which necessarily is defined and must consider project-specific contractual terms and other particular needs, expectations, circumstances, and requirements of the project and the professional engagement. Adherence to ASTM's prescriptive professional practice standards may not be appropriate or in the best interests of the client or the project. Kosuri Engineering & Consulting, P.C.'s instruments of service, Kosuri Engineering & Consulting, P.C. has worked to develop a scope of service specifically for this project, in accordance with client's needs and preferences and Kosuri Engineering & Consulting, P.C.'s professional and contractual obligations.

The ASTM Standards provide specific guidance with regard to radon, asbestos, lead in drinking water, lead based paint, and polychlorinated biphenyls (PCBs). Analysis of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) implications with regard to the innocent landowner defense under Superfund finds that naturally occurring radon is not subject to CERCLA liability and is appropriately considered as a non-scope issue. Accordingly, this assessment will only provide general guidance on this issue, and will not involve or recommend air monitoring for radon gas.

Similarly, the ASTM Standards do not recognize liability with regard to asbestos that is part of the building materials of a structure, in accordance with CERCLA innocent landowner defense under Superfund. If asbestos containing material is disposed of on a property, however, such practice would be subject to Superfund response actions and should be identified. In the interest of serving the client and addressing the needs of the user, this assessment will identify observed asbestos containing materials (ACMs) which may pose a health threat. This assessment is not a full asbestos survey as would be required for building demolition, or identification of all possible sources of ACM, regardless of health danger.

Lead in drinking water and lead based paint are also issues which are considered to be non-scope under CERCLA innocent landowner defense under Superfund. Lead based paint was in use for many years, and it is likely that many older buildings will have surfaces coated with lead based paint. As a general rule, painted surfaces should be maintained and ingestion of paint products should be avoided. If disposal of these materials is involved, disclosure of this practice would be subject to the scope of this environmental assessment. In the interest of serving the user, this report may include limited field testing of surface paints and the observations on the condition of the painted surfaces. Lead in drinking water generally occurs as a result of past use of high lead content solder. Water left stagnant in pipes overnight or longer may leach lead from these joints and affect drinking water quality. As a general rule, water should be run for several minutes in the morning where such plumbing may be present.

GARDEN CITY

Jr High

in Cherry Valley
Country Club

Abandoned

Golf Course

RECHAWOG

SOUTH

Rockville
Country Club

MADISON

Plate #1: Project Location Map, Hempstead, NY.

2. SITE VISIT

2.1 Subject Property

The areal extent of the subject property was approximately 16,000 square feet. The subject property was undeveloped (except for remnants of a former building) at the time of the inspection. The surface area of the subject property consisted of concrete parking areas. The subject property exhibited low topographic relief (less than three percent slopes).

2.1.1 Interior Inspection

No permanent structures were observed on the subject property, except for the former foundation and the basement portion of a former masonry building. However, the basement of the former building was inaccessible at the time of the inspection due to excessive flooding. Therefore, no inspection was performed with respect to the basement of the former structure. The one-story masonry building formerly located on the subject property was destroyed in a fire on April 15, 1999.

2.1.2 Exterior Inspection

The exterior of the subject property was inspected on September 28, 2000 by staff Certified Environmental Inspector Greg Harris. No subject property representative was available for this portion of the inspection. The inspection of the subject property revealed the following information relevant to the environmental quality of the subject property:

The subject property consisted of a concrete slab, which was observed to be the foundation of the building which was formerly occupied by a metal plating operation (Husslein Parts, Inc.). It could not be determined during the site inspection if the basement covered the entire footprint of the building on the subject property. At the time of the inspection, the basement area was inaccessible. The subject property was utilized for the storage of tractor trailers (Salem Trucking Inc.).

1. There was one underground storage tank (UST) tentatively identified on the subject property. This suspected UST was identified by the presence of a fill pipe on the northern portion of the subject property. However, it is possible that this fill pipe corresponds to aboveground storage tank (AST) in the basement.
2. There were no above ground storage tanks (ASTs) observed on the subject property (see above).
3. No electrical transformers suspected of containing PCB bearing dielectric fluid were observed on the subject property.
4. There was no visible evidence of the illegal storage or dumping of asbestos containing materials or formaldehyde foam insulation materials on the subject property.

5. No drywells (Class V, well code 5D2, storm water drainage wells as defined under the USEPA Underground Injection Control Program) were observed on the subject property.
6. A trench drain was observed in the concrete slab on the subject property. Said trench drain was observed to run from two northern points to a southern point where a large pit was located on the subject property. The pit was filled with construction and demolition (C&D) debris at the time of the inspection. Therefore, a thorough inspection of the pit could not be performed during the site visit. In addition, the trench drain was observed on a floor plan for the former plating works facility on the subject property (see section 4.4.1).
7. Former sanitary lines were observed in the northeastern corner of the subject property. According to the Incorporated Village of Hempstead records, the subject property was connected to the public sewer system since construction of the original structure circa 1945 (see section 4.1.2).
8. Evidence of former mounted heavy machinery was observed on the concrete slab located on the subject property.
8. Solid waste debris was observed along the perimeter of the subject property. In addition, construction and demolition (C&D) debris was observed on the northeastern portion and the western portion of the subject property.
9. There were no stains or other visible evidence of any discharge of hazardous substances on the accessible surface areas of the subject property.

2.2 Surrounding Properties

Land uses occurring on the surrounding properties may have an effect on the environmental quality of the subject property. Accordingly, a visual inspection was performed on the properties immediately adjacent to the subject property. The following information was noted.

2.2.1 North of the Subject Property

1. Sewell Street

This was a two way, two lane municipal road facilitating a low volume of traffic at the time of inspection. The composition of the surface was asphalt.

2. Undeveloped Parcel (former parking lot)

This property appeared to be undeveloped. A 550 gallon waste oil AST was located on the property. Said property appeared to be associated with Donegal Environmental which was located to the north of the property. At the time of inspection, there was no visible evidence of any discharge of hazardous substances.

3. Donegal Environmental

This property appeared to facilitate an environmental services company. Drum storage was observed in the shop area at the time of the inspection. There was no visible evidence of any discharge of hazardous substances.

4. Belham Industries

This property appeared to facilitate an industrial building. At the time of inspection, there was no visible evidence of any storage, handling, or discharge of hazardous substances.

5. Contractor's Yard

This property appeared to facilitate a contractor's yard. At the time of inspection, there was no visible evidence of any storage, handling, or discharge of hazardous substances.

6. Vacant Industrial Building (69 Sewell Street)

This property appeared to facilitate an industrial building. Said building appeared to be vacant at the time of the site inspection. There was no visible evidence of any storage, handling, or discharge of hazardous substances.

2.2.2 South of the Subject Property

1. Pallet Storage

This property appeared to facilitate a storage yard for pallets. At the time of inspection, there was no visible evidence of any storage, handling, or discharge of hazardous substances.

2. North American Service Alliance (NASA)

This property appeared to facilitate an office building. At the time of inspection, there was no visible evidence of any storage, handling, or discharge of hazardous substances.

3. Contractor's Yard

This property appeared to facilitate a contractor's yard. Drum storage was observed on the property at the time of the inspection. There was no visible evidence of any discharge of hazardous substances.

2.2.3 East of the Subject Property

1. Contractor's Yard

This property appeared to facilitate a contractor's yard. Aboveground storage tanks (three 275 gallon ASTs) and drum storage were observed on the property at the time of the inspection. There was no visible evidence of any discharge of hazardous substances.

2. Artistic Sound Designs / Top of Class Printers & Stationers

This property appeared to facilitate a printer. At the time of the inspection, there was no visible evidence of any storage, handling, or discharge of hazardous substances.

2.2.4 West of the Subject Property

1. Mirschel Street

This was a two way, two lane municipal road facilitating a low volume of traffic at the time of inspection. The composition of the surface was asphalt.

2. Ash Down Place

This was a two way, two lane municipal road facilitating a low volume of traffic at the time of inspection. The composition of the surface was asphalt.

3. Residential Dwellings

These properties appeared to facilitate single family residential dwellings. At the time of inspection, there was no visible evidence of any storage, handling, or discharge of hazardous substances.

5. REVIEW OF CORPORATE RECORDS AND PERSONAL INTERVIEWS

Review of corporate records and personal interviews can provide useful information regarding the processes occurring on the site. Interviews with subject property representatives and review of available corporate documentation has revealed the following information regarding the environmental quality of the subject property.

3.1 Personal Interviews

An interview with the subject property *key site manager* (ASTM 1527 3.3.17) has revealed the following information.

Key site manager - Mr. Scott Miller, potential purchaser

1. According to Mr. Miller, he was unfamiliar with the former structure on the subject property.

3.2 Waste Management Audit

Legislation enacted under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) establishes hazardous material generators forever legally liable for their byproducts and/or wastes produced. This encompasses the transport and destination of these materials. The following is a summation of the available corporate data relating to the transport and disposal of all hazardous materials utilized at the subject property.

Key site manager - Mr. Scott Miller, potential purchaser

1. According to Mr. Miller, no regulated wastes are currently generated on the subject property.

4. GOVERNMENT RECORD INVENTORY

The Freedom of Information Act/Law (Public Officers Law, Sections 84-90) provides rights of access to all government documents not exempt from disclosure. Accessible records include paper documents and items such as video/audio tape recordings, microfilm, and computer disks. Kosuri Engineering & Consulting, P.C. examined relevant government documentation so as to define implicit parameters affecting the environmental quality of the subject property. All appropriate Freedom of Information requests were submitted and are included in the appendix of this document.

4.1 Federal Government

Environmental Protection Agency (EPA) [See Appendix A]

The EPA maintains the "National Priority List" (NPL), that defines known hazardous material waste sites that are described by the Federal Government as needing immediate clean-up action. Such sites usually will affect the environmental quality of a large area. All hazardous material waste sites being considered for addition to the NPL are listed in the "Comprehensive Environmental Response Compensation and Liability Information System" [CERCLIS]. The EPA's "Emergency Response Notification System" (ERNS) List consists of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. The EPA's Resource Conservation and Recovery Act (RCRA) TSD Facilities List contains those facilities at which treatment, storage, and/or disposal of hazardous wastes takes place, as defined and regulated by RCRA. The RCRA Generators List consists of those persons or entities that generate hazardous wastes as defined and regulated by RCRA. Review of the NPL, the CERCLIS List, the ERNS List, the RCRA TSD Facilities List, and the RCRA Generators List has revealed the following information relevant to the subject property's environmental quality.

1. The subject property did not appear on the NPL.
2. The subject property did not appear on the CERCLIS List.
3. The subject property did not appear on the CERCLIS NFRAP List.
4. The subject property did not appear on the ERNS List.
5. The subject property did not appear on the RCRA TSD Facilities List.
6. The subject property did not appear on the RCRA Generators List.
7. The subject property did not appear on the RCRA Corrective Action Database (CORRACTS).
8. There were no sites within a one mile radius of the subject property that appeared on the NPL.

9. There was one (1) site within a one-half mile radius of the subject property that appeared on the CERCLIS List.

A. Franklin Cleaners (NYD982183550)

Location: 206-208 B South Franklin Street, Hempstead, New York - 2/5 mile southeast of the subject property.

10. There were no sites within a one-half mile radius of the subject property that appeared on the CERCLIS NFRAP List.
11. There were no sites within a one mile radius of the subject property that appeared on the RCRA TSD Facilities List.
12. There were no sites within the immediate vicinity of the subject property that appeared on the RCRA Generators List.
13. There were no sites within a one mile radius of the subject property that appeared on the RCRA Corrective Action Database (CORRACTS).

4.2 State Government

New York State Department of Environmental Conservation (NYSDEC) [See Appendix B]

4.2.1 Inactive Hazardous Waste Disposal Sites and Hazardous Substance Waste Disposal Sites

The NYSDEC currently maintains the publications, Inactive Hazardous Waste Disposal Sites in New York State and Hazardous Substance Waste Disposal Site Study. These publications give the location, type of contamination, and remediation status of each listed site in New York State that were determined to have had hazardous wastes or hazardous substances disposed of at the sites and are in need of remedial activities. A review of these publications revealed the following information relevant to the environmental quality of the subject property:

1. The subject property was not listed in the NYSDEC publications, Inactive Hazardous Waste Disposal Sites in New York State or Hazardous Substance Waste Disposal Site Study.
2. There were two (2) sites that appeared in the NYSDEC publication, Inactive Hazardous Waste Disposal Sites in New York State, located in proximity (~1 mile radius) to the subject property.
 - A. Franklin Cleaners - Site Code # 130050
Classification: Class 2 - Significant threat to the public health or environment - action required.
Location: 206-208 B South Franklin Street, Hempstead, New York - 2/5 mile SE of the subject property.
 - B. Harder Tree Service - Site Code # 130035
Classification: Class 2 - Significant threat to the public health or environment - action required.
Location: 63 Jerusalem Avenue, Hempstead, New York - 4/5 mile east of the subject property.
3. There were no sites that appeared in the NYSDEC publication, Hazardous Substance Waste Disposal Site Study, located in proximity (~1 mile radius) to the subject property.

4.2.2 Solid Waste Management Facilities

The NYSDEC maintains a listing of all registered and permitted landfills, transfer stations, and solid waste disposal sites within New York State. A review of this listing has revealed the following information relevant to the environmental quality of the subject property:

1. There were no sites within a one-half mile radius of the subject property that appeared on the listing.

4.2.3 State Pollutant Discharge Elimination System Permits

In 1973, New York passed the State Pollutant Discharge Elimination System Act (SPDES) which provides for state permits for point source discharges to surface and ground waters. The NYSDEC was delegated authority by the USEPA to regulate the issuance of all SPDES permits as stipulated under sections 307, 318, 402, and 405 of the Clean Water Act. A review of SPDES permit listings in Nassau County revealed the following information relevant to the environmental quality of the subject property.

1. No significant SPDES permits were listed for the subject property.
2. No significant SPDES permits were listed for the properties adjacent to the subject property.

4.2.4 Regulated Materials Storage Facilities

The NYSDEC maintains a listing of all facilities storing regulated materials in bulk within New York State. The Chemical Bulk Storage (CBS) listing contains all facilities that store regulated hazardous substances in above ground storage tanks with capacities of one hundred eighty five (185) gallons or greater, and/or in underground tanks of any size, as per 6 NYCRR Part 596. The Petroleum Bulk Storage (PBS) listing contains all facilities that have petroleum storage capacities in excess of eleven hundred (1,100) gallons and less than four hundred thousand (400,000) gallons, as per 6 NYCRR Part 612. The Major Oil Storage Facilities (MOSF) listing contains all onshore facilities or vessels with petroleum storage capacities of four hundred thousand (400,000) gallons or greater, as per Article 12 of the Navigation Law, 6 NYCRR Part 610, and 17 NYCRR Part 30. A review of these listings has revealed the following information relevant to the environmental quality of the subject property:

1. The subject property did not appear on the CBS listing.
2. The subject property did not appear on the PBS listing. Please note that Nassau County has been approved for delegation of the PBS program (as per 6 NYCRR Part 612.5). Nassau County enforces its own regulations and maintains its own data files. Therefore, data on facilities in this county are not included in the NYSDEC PBS listing.
3. The subject property did not appear on the MOSF listing.
4. There were no sites within the immediate vicinity (adjacent) of the subject property that appeared on the CBS listing.
5. There were no sites within the immediate vicinity (adjacent) of the subject property that appeared on the PBS listing. See number 2 above.
6. There were no sites within a one-half mile radius of the subject property that appeared on the MOSF listing.

4.2.5 NYSDEC Spill Logs

The New York State Department of Environmental Conservation routinely responds to petroleum product spill/discharge incidents so as to perform and/or supervise in their remediation. The agency currently maintains a log (Spill Log) of all reported incidents which have occurred within specific regions of the State of New York. Typical events which would be listed on the log include motor vehicle accidents involving the release of petroleum products; discharges of petroleum products from underground storage tanks; discharges of PCB contaminated oils from electrical transformers; and events involving the abandonment of petroleum products. A review of the NYSDEC Region I Spill Log revealed the following information relevant to the environmental quality of the subject property.

1. There was one (1) spill event listed in the NYSDEC Spill Log as having occurred on the subject property.
 - A. Spill incident 9507338 involved the release of an unknown amount of multiple chemicals as the result of a fire which occurred on the subject property. The subject property operated as a metal plating plant at the time of the fire. Said incident occurred at 48 Sewell Street (Hussline Parts Inc.) on 09-15-95, and local soil was listed as having been affected. The case was closed on 09-27-95, indicating that the incident was remediated to the satisfaction of the NYSDEC.
2. There were numerous spill incidents listed in the NYSDEC Spill Log as having occurred in the vicinity of the subject property (see NYSDEC Spill Logs). Review of these incidents has revealed that one active spill was listed as having occurred within 1/8 mile of the subject property.
 - A. Spill incident 9203597 involved the release of an unknown amount of an unknown petroleum product as the result of poor housekeeping on the property. Said incident occurred at 111 Madison Avenue, Hempstead (Independence One Finance - 1/8 mile northeast of the subject property) on 04-27-92, and local soil was listed as being affected. The case is still listed as being active.

Other spill incidents were also identified as having occurred in the vicinity of the subject property. However, due to such factors as the local groundwater flow direction, the spill incident statuses, the quantities of petrochemicals spilled, the distances between the spill sources and the subject property, and the resources affected, none were deemed to have the potential to significantly impact the environmental quality of the subject property.

4.3 County Government

The Nassau County Health Department (NCHD); Nassau County Department of Public Works; Nassau County Fire Marshal's Office; Nassau County Clerk's Office [See Appendix C]

4.3.1 Nassau County Health Department

The Nassau County Department of Health Services is the regulatory agency for the County Public Health Ordinance. The Public Health Ordinance of Nassau County stipulates proper storage and handling of hazardous materials, identification and testing of chemical storage tanks and parameters for the operation of sanitary systems. The NCHD maintains records on health code inspections and violations.

Article 11, Section 20 of the Nassau County Health Ordinance requires that all facilities complete a Toxic and Hazardous Materials Registry. The registry requires that a facility indicate all materials used, stored or produced on site (this includes underground storage tanks and above ground bulk storage). Upon completion of this registry, it is filed with the NCHD. Article 11, Sections 2-18 of the Health Ordinance stipulate that all hazardous materials used, stored or produced on site be stored and handled in accordance with established guidelines. So as to determine a facility's compliance with these codes, inspections are performed by NCHD sanitarians.

A review of NCHD records revealed the following information relevant to the environmental quality of the subject property.

1. The subject property was not listed on the NCHD Article 11 database.
2. A Freedom of Information request was submitted for additional information regarding the subject property, but no response has been received to date.
3. No adjacent properties were listed on the NCHD Article 11 database.

4.3.2 Nassau County Department of Public Works

Nassau County Department of Public Works is charged with the authority to approve, inspect, construct and/or remove public sewer systems and private sanitary systems. Review of records attained from this office revealed the following information relevant to the environmental quality of the subject property.

1. According to a representative of the Nassau County Department of Public Works, the subject property is not within their jurisdiction (sewers in this area are regulated by the Incorporated Village of Hempstead).

4.3.3 Nassau County Fire Marshal's Office

The Nassau County Fire Marshal's Office often has additional files regarding the storage and handling of chemicals. Review of said files revealed the following information relevant to the environmental quality of the subject property:

1. Freedom of Information requests were submitted for the subject and adjacent properties, but no responses have been received to date.

4.3.4 Nassau County Clerk's Office

The Nassau County Clerk's Office was contacted so as to determine past ownership of the subject property. The following information was compiled:

1. The ownership of the property was listed as follows:

A. Section 35 Block 630 Lots 21 & 22

<u>Owner/Deed Holder</u>	<u>Date of Transfer</u>
Vincent DiStefano	01-04-90
Louis Giffuni	07-20-56
Harold & Sally Weidberg	11-19-54
Kingsland Homes Inc.	11-04-53
Alf Christeau	11-14-52
County of Nassau	Unknown Date
Frank Fulcher	08-21-52
Clara Smith	Unknown Date
Alf Christeau	08-23-51
Gertrude Rais	(first listed owner)

B. Section 35 Block 630 Lot 23

<u>Owner/Deed Holder</u>	<u>Date of Transfer</u>
Gasper & Maria Bonfordino	06-06-77
Helmuth & Dora Hartman	03-12-65
Anthony Ciambra	(first listed owner)

C. Section 35 Block 630 Lot 24

Owner/Deed Holder

Queens County Savings Bank

Jan & Helen Polivka

Alcir Realty Corp.

Date of Transfer

08-19-85

06-20-52

(first listed owner)

D. Section 35 Block 630 Lot 25

Owner/Deed Holder

Joseph Seibert

Kevin Ondik

Milton Kurland

Lillian Kurland

Date of Transfer

09-28-78

12-16-76

05-03-74

(first listed owner)

E. Section 35 Block 630 Lot 26

Owner/Deed Holder

Gary & Sharon Glogower

Sharon Glogower

Gary Glogower

Sinan Fonji

Daryoush Aghalaysour

Kitty Konecky

Stuart Konecky

Alcir Realty Corp.

Date of Transfer

02-05-92

12-13-89

06-10-86

08-23-84

12-02-80

12-06-63

02-18-52

(first listed owner)

F. Section 35 Block 630 Lot 27

Owner/Deed Holder

Jerome BousEdelmon

Alcir Realty Corp.

Date of Transfer

07-14-52

(first listed owner)

G. Section 35 Block 630 Lot 28

Owner/Deed Holder

Cent Anni Realty

Estate of George Holm

Date of Transfer

08-27-82

(first listed owner)

4.4 Municipal Government

Incorporated Village of Hempstead [See Appendix D]

Town and Village Governments generally include such regulatory entities as Building Departments, Environmental Boards/Departments, Assessors Offices, and Planning Departments. These regulatory agencies have a detailed vision of local issues. It is because of this local perspective that municipal regulatory agencies were contacted regarding the subject property.

4.4.1 Town Building Department

Records on file regarding the subject property with the Incorporated Village of Hempstead Building Department revealed the following information:

1. Files regarding the subject property appeared to be consistent with the site visit.
2. The areal extent of the subject property was approximately 16,000 square feet.
3. A letter dated November 7, 1945 found in the Incorporated Village of Hempstead Building Department records described plans to construct a 100' by 150' masonry building on the subject property. The building was to be utilized as a bus garage and office. The letter shows that five men would be employed in the garage to repair and service buses on the subject property. A Building Permit (#4939) was issued on 11-07-45 to construct said masonry building on the subject property. Said permit was filed by the Semke Bus Line, Inc. Site plans dated 10-13-45 showed the layout of the masonry building including the garage and the office area. The site plan for the cellar showed that a boiler room was located in the northeastern corner of the subject property and a storage room was adjacent to the west of the boiler room. However, there was no indication what fuel source was utilized to heat the building. In addition, the site plan for the that two floor drains were located in the building. The floor drains discharged to an oil / water separator in the building. In addition, the site plan showed piping connecting the separator to the boiler room. The site plan for the office showed that two floor drains and a cement floor was proposed to be located in the building. The outfalls of these floor drain systems were not identified.
4. A Building Permit was issued on an unknown date for the demolition of a private storage garage. The building was original constructed in 10-17-45.
5. A Building Permit (#12266) was issued on 07-27-61 for the installation of a 2000 gallon gasoline UST. The building permit indicates that the tank installation was observed to have been completed on 08-16-61.
6. A Building Permit (#16081) was issued on 07-28-72 to perform interior alterations (install draft baffle, an acoustic partition, an office partition, roof mounted exhaust fans, and close-up windows) to an existing structure on the subject property. A corresponding Certificate of Completion was issued on 06-13-73. The

interior alterations were performed to renovate the building on the subject property for a metal plating operation.

7. A Notice of Violation was issued against the subject property on 01-22-92. The following violations were issued against the subject property: a cross connection device was not installed in the building, water was continually running in the urinal and hand wash sink, the hand wash sink was installed in the building without a proper permit, an illegal trap was located under the office lavatory, processing tanks and acid tanks were installed on the property without first obtaining a plumbing permit, and plastic water piping was being utilized in the building.
8. An undated site plan found in the Incorporated Village of Hempstead Building Department records detailed the location of the equipment and tanks utilized in the plating operation which occupied the building. In addition, the site plan shows the location of a trench drain that was observed on the subject property at the time of the inspection (see appendix D).
9. According to a representative of the Incorporated Village of Hempstead Building Department, there were three fires on the subject property. The date of the first fire could not be determined, however the second fire was recorded in the NYSDEC Spill Logs. According to the NYSDEC spill logs, a fire occurred on the subject property on 09-15-95. The plating operation caught on fire and the spill was reported by the local fire department. According to a letter dated 04-23-99 written by the Incorporated Village of Hempstead to Ludwig Husslein, Jr., the third fire on the subject property occurred on April 15, 1999 (which caused structure damage to fifty percent of the building). Mr. Ludwig Husslein was notified that the structure should be demolished within five days of receiving the letter.
10. A Notice of Violation was issued against the subject property on 08-25-93. The subject property was unsightly with overgrown weeds and bushes.

4.4.2 Incorporated Village of Hempstead Department of Public Works

Incorporated Village of Hempstead Department of Public Works is charged with the authority to approve, inspect, construct and/or remove public sewer systems and private sanitary systems. Review of records attained from this office revealed the following information relevant to the environmental quality of the subject property.

1. According to a representative of the Incorporated Village of Hempstead Department of Public Works, the subject property was connected to the public sewer system on November 8, 1945 (Permit #4730).

5. REVIEW OF AVAILABLE PRIVATE DATABASE DOCUMENTATION

5.1 Cole Directory

The Cole Directory is a reverse telephone directory which includes listings by address and telephone number. As such, it can be a valuable instrument in determining potential pollution sources and/or sensitive receptors in an area of study. Information contained on the directory includes the name, telephone number, land use, geographic location, wealth rating, street construction date and date of telephone service connection. This data can be interpreted so as to yield relevant information regarding past land uses which might have affected the environmental quality of the subject and/or the surrounding properties. Listings for the streets in the vicinity of the subject property revealed the following information relevant to the environmental quality of the subject property:

Address	Listing	Date Listed
48 Sewell Street, Hempstead	Not Listed	1972
	Husslein Plating	1975-1985
	Not Listed	1990-2000

5.2 Sanborn Maps

The Sanborn Maps were created to inform fire fighters of potential dangers based on land use and building construction. Said maps are also used for fire insurance purposes. These maps are updated on a rotating basis. The maps were inspected to determine past uses of the subject property and surrounding properties. The Sanborn Maps for the subject property revealed the following information:

1. The Sanborn Maps for the subject property dated 1963 & 1970 showed a bus garage and repair shop on the subject property. A private garage and an associated parking lot, a computer instrument manufacturer, and a plastic manufacturer were located to the north of the subject property. A plumbers warehouse, a plastic manufacturer, an automotive parts storage yard, an office with a fuel oil tank and a drug manufacturer with a fuel oil tank were located to the south of the subject property. Residential dwellings were located to the west of the subject property. Undeveloped parcels, parking lots, and an automobile repair facility were located to the east of the subject property.
2. The Sanborn Maps for the subject property dated 1961 showed a bus garage and repair shop on the subject property. A private garage and an associated parking lot, a catalog publisher, and a plastic manufacturer were located to the north of the subject property. A plumbers warehouse, a plastic manufacturer, an automotive parts storage yard, an office with a fuel oil tank and a drug manufacturer with a fuel oil tank were located to the south of the subject property. Residential dwellings were located to the west of the subject property. Undeveloped parcels, parking lots, and an automobile repair facility were located to the east of the subject property.

3. The Sanborn Maps for the subject property dated 1950 showed a bus garage and repair shop on the subject property. Undeveloped parcels were located to the north and west of the subject property. Undeveloped parcels and residential dwellings were located to the south of the subject property. Undeveloped parcels and a truck sales and service shop with an associated gasoline UST were located to the east of the subject property.
4. The Sanborn Maps for the subject property dated 1936 showed the subject property as undeveloped. Undeveloped parcels were located to the north, south, west and east of the subject property. However, the streets were marked on the Sanborn Maps.
5. The Sanborn Maps for the subject property dated 1925 showed the subject property as undeveloped. Undeveloped parcels were located to the north, south, west and east of the subject property. The streets were not marked on the Sanborn Maps at this time.

6. GEOLOGICAL BACKGROUND STUDY

6.1 Subsurface Geology

The geology of Long Island consists of thick deposits of unconsolidated, water bearing sediments resting upon a relatively impermeable, crystalline bedrock surface. The sequence of events that shaped Long Island's geology is not known with certainty, but it probably began with the formation of the original basement rocks in early Paleozoic to Precambrian time more than 400 million years ago. These basement rocks were heated and compressed (metamorphosed) by folding and faulting, producing a rugged, mountainous topography. During the subsequent period ending with the late Cretaceous Epoch 100 million years ago, erosion reduced the land to a nearly planer surface that gently tilted to the southeast.

During the late Cretaceous Epoch (60-100 million years ago), streams brought sediments from the north and the west to the Long Island area on the continental margin, forming a permeable sand layer (Lloyd Sand Member of the Raritan Formation) and overlying clay member (clay member of the Raritan Formation) upon the bedrock surface. After a short period of erosion or non-deposition, thick, permeable beds of river delta clay, sand, and gravel were deposited on the Raritan Formation; these deposits comprise the Magothy Aquifer. Toward the close of the Late Cretaceous period (approximately 60 million years ago), a sand and clay unit (Monmouth Group) of low permeability was deposited in shallow marine waters in the area that now constitutes Long Island's south shore.

A long period of non-deposition, or possibly deposition followed by erosion, occurred after the Cretaceous era. Geologic activities during this time left few sedimentary traces, but streams flowing across Long Island cut deep valleys into the Magothy. It was not until late Pleistocene (Wisconsinian) glaciation- some 20 to 200 thousand years ago- that there were any significant additions to Long Island's geologic record. Valleys were filled and the other deposits were almost completely buried by glacial deposits. Prior to the southward movement of the Pleistocene ice sheets to Long Island, an extensive clay unit (Gardiners Clay) was deposited in shallow marine and brackish waters along the shores of what is now Suffolk County. This unit rested upon the Magothy and Monmouth Group, and acted as a confining layer. The northern portions of the Gardiners were subsequently eroded by advancing ice and glacial meltwaters, and Gardiners Clay beds are now found only in the south shore area.

6.1.1 Topography

The Pleistocene glaciation created the hilly Ronkonkoma moraine along Long Island's "spine" and south fork, and the Harbor Hill Moraine along the North shore and the North fork. Erosion of these morainal deposits (as the glacier melted away from Long Island) created extensive outwash plains of sand and gravel in the intermorainal area and south to the Atlantic Ocean. These highly permeable deposits comprise the upper glacial aquifer and represent the majority of Long Island's surficial sediments. Some local confining clay units were also formed from glacial materials in intermorainal lakes and tidal lagoons. Since the end of glaciation, about 12,000 years ago, Holocene beach and marsh deposits have been formed along the marine edge, and within stream corridors and ponds.

The elevation of the subject property, as presented on the United States Geologic Survey (USGS), Lynbrook Quadrangle Map, approximates forty (40) feet above sea level. The USGS Map, which was base dated 1954, field checked in 1969, did not depict a structure on the subject property (the property is within an area in which only landmark buildings were mapped).

6.1.2 Soil Component Identification

Nassau County is divided into ten general soil units, or groups of soils geographically associated in a characteristic repeating pattern, according to the Soil Survey of Nassau County, New York (U.S. Department of Agriculture, U.S. Soil Conservation Service). The general soil component of the subject property, as defined by this publication, is the *Urban Land-Riverhead Association*. This Association consists of dominantly Urban Land and nearly level, well drained, moderately coarse textured soils on plains.

The Soil Survey also describes detailed soil units that each represent an area on the landscape consisting of one or more soils for which the unit is named. The detailed component of the subject property is identified by this Survey as the *Urban Land-Riverhead Complex, 0 to 3 Percent Slopes (UrA)*. This soil unit consists of urbanized areas and very deep, well-drained soils on nearly level tops of benches, plains, and broad ridges.

This unit is described as a soil complex because the urbanized areas and Riverhead soils are so intermingled that it was not practical to classify them separately. This soil complex is made up of about 65 percent urbanized areas, 20 percent Riverhead soils, and 15 percent other soils. The urbanized areas consist of buildings, roads, driveways, parking lots, and other man-made structures.

Typical sequence, depth and composition of the layers of Riverhead Series Soils are as follows:

<i>Depth</i>	<i>Description</i>
<i>Surface layer to 3 inches</i>	<i>dark brown sandy loam</i>
<i>3 to 8 inches</i>	<i>strong brown fine sandy loam</i>
<i>8 to 17 inches</i>	<i>yellowish brown fine sandy loam</i>
<i>17 to 24 inches</i>	<i>yellowish brown sandy loam</i>
<i>24 to 35 inches</i>	<i>brownish yellow loamy sand</i>
<i>35 to 52 inches</i>	<i>brownish yellow sand</i>
<i>52 to 60 inches or more</i>	<i>brownish yellow gravelly sand</i>

6.2 Hydrology

Nassau County relies upon its underlying groundwater as a sole source for drinking water (aquifer). It is therefore necessary for regulatory agencies to monitor the quality of the water. To do this, a complex network of groundwater monitoring wells has been installed by various public and private agencies so that water samples can be acquired and analyzed. The complexity of the monitoring well system stems from Long Island's geologic history, which has different water bearing and retarding levels and zones.

6.2.1 Groundwater Characteristics

The subject property lies within Hydrogeologic Zone I, The Deep Flow - Magnothy Recharge Area (Nassau-Suffolk 208 Study - Water Management Zones in Nassau and Suffolk). Zone I is characterized by deep groundwater recharge and vertical groundwater flow.

Regional groundwater flow direction in the area of the subject property is anticipated to be towards the south with a slight western component. The water table is encountered at approximately ten (10) feet below existing grade.

6.2.2 Groundwater Quality

Information regarding the quality of groundwater drawn from wells located in the area of the subject property is maintained by the Nassau County Department of Public Works in conjunction with the Nassau County Department of Health. A Freedom of Information request was submitted to the Nassau County Department of Public Works. However, no response has been received to date. If any information relevant to the environmental quality of the subject property is revealed, it will be addressed in an addendum to this report.

7. LIMITED SCOPE IDENTIFICATION OF POSSIBLE LEAD CONTAINING SURFACE PAINTS

The element of lead has no function in the body. It can have poisonous effects on human organs and the nervous system, causing a variety of toxic reactions. Since lead accumulates in the body more rapidly than it can be removed, repeated exposures, even to small amounts, may produce lead poisoning. In addition, deteriorating lead components may allow lead to become airborne [CAS# 7439-92-1]. Threshold limit values have been established at 0.15 mg/m³ (of air) by the American Conference of Governmental Industrial Hygienists. A non-destructive survey was performed. Said survey was not intended to constitute a full lead paint survey, which is beyond the scope of this report.

1. No suspected lead containing surface paints were observed, and no samples were secured.

8. LIMITED SCOPE IDENTIFICATION OF POSSIBLE FRIABLE ASBESTOS CONTAINING MATERIALS

Asbestos has been linked to various types of lung diseases. Various regulatory agencies have tolerance limits of 1% by weight for asbestos in materials. Any material which contains asbestos levels above this limit may be considered hazardous and may have to be abated. A non-destructive survey was performed. Said survey was not intended to constitute a full asbestos survey, which is beyond the scope of this report. The results of the survey are listed below:

1. No suspected friable asbestos containing materials were observed, and no samples were secured.

9. RADON INVESTIGATION

Radon is a colorless, odorless, inert gas which has become an air contaminant in certain geographic areas. Radon is a natural isotope which is most commonly present in association with crystalline bedrock and occasionally other geologic deposits. Naturally occurring isotope decay can emit radiation which causes health concerns from inhalation. Radon levels generally increase in areas where bedrock is close to the land surface, and generally only creates a health related problem where underground basements are constructed. A basement can allow radon gas to accumulate in a manner which could cause exposure. Geographically, radon may be of concern in certain parts of Queens and points further west. Absent these conditions, radon gas presents less of a concern. The only way to determine concretely if radon gas is present is to perform air monitoring. Said monitoring is beyond the scope of this report.

The EPA issued a publication entitled Map of Radon Zones dated September 1993. Said document was prepared by the USEPA Office of Radiation and Indoor Air in conjunction with the USGS. According to said publication, 589 sites were tested for indoor radon concentrations in Nassau County between the years 1985 and 1993. The following information was revealed (based on an action level for radon of 4 pCi/L).

<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
1.2 pCi/L	97%	3%	0%

10. EVALUATION OF DATA OBTAINED DURING THE ASSESSMENT

10.1 Recommendations

The following recommendations should be considered to further define the environmental quality of the subject property. These recommendations will define data which falls outside the scope of this investigation. Any issues not discussed in this section were not anticipated to represent recognized environmental conditions, and were not anticipated to have the potential to impact the environmental quality of the subject property.

10.1.1 Recommended Phase I ESA Activities

Additional activities may be required as a result of the Phase I investigation. Generally, these apply to surrounding uses observed during the site inspection.

1. Responses to the Freedom of Information requests submitted to the Nassau County Health Department and the Nassau County Fire Marshal's Office have not been received to date. ASTM establishes that a diligent Phase I Environmental Site Assessment must consider all information obtained from a public agency within twenty days of receipt of a Freedom of Information request. Accordingly, information obtained from the above-mentioned agencies before the twenty day period has passed will be addressed in an addendum to this assessment.
2. The basement of the subject property should be made accessible to determine if any chemical storage tanks still remain on the subject property and to determine if any floor drains which could have had the potential to impact the environmental quality of the subject property are located in the basement area (due to the industrial use of the subject property). The basement was flooded and inaccessible at the time of the inspection. The results of this inspection could warrant the need for additional Phase II and III ESA activities.

10.1.2 Recommended Phase II ESA Activities

Additional activities may be required as a result of the Phase I investigation. These include the performance of sampling and analysis plans.

1. Review of the Incorporated Village of Hempstead Building Department Records revealed that a 2000 gallon gasoline UST was formerly maintained on the subject property. No documentation was provided regarding the proper abandonment and/or removal of said UST. This lack of documentation represents a recognized environmental condition. Accordingly, it is recommended that a remote sensing survey be performed to determine if the UST is still present on the subject property. In addition, it is recommended that a limited subsurface investigation be performed to determine if the operation of the UST actuated a release of product to the subsurface soils and / or groundwater of the subject property. If the presence of the UST is confirmed, this study can be performed as part of the removal activities (see section 10.1.3).

2. Review of the Incorporated Village of Hempstead Building Department Records, the NYSDEC Spill Logs and the Sanborn Fire Insurance Maps revealed that Husslien Inc. (a metal plating operation - from approximately 1972 to April 1999) and Semke Bus Line Co. (a bus garage and repair shop - from approximately 1945 to 1970) were formerly located on the subject property. This industrial use of the subject property has created the potential for subject property to have been polluted from organic and inorganic contaminants. This potential represents a recognized environmental condition. Accordingly, it is recommended that a limited subsurface investigation be performed to determine if the industrial use of the property may have affected the environmental quality of the subject property.
3. One NYSDEC spill incident was listed as having occurred on the subject property. However, the incident was closed, indicating that the spill was remediated to the satisfaction of the NYSDEC. Accordingly, no Phase II activities are recommended with respect to this spill at this time.
4. A fill pipe for a storage tank was identified on the northeastern portion of the subject property. It could not be determined at the time of the inspection whether the fill pipe was associated with an UST or an AST in the basement. The presence of an unknown storage tank on the subject property represents a recognized environmental condition. This further substantiates the above mentioned recommendation for access to the former basement of the masonry building (see section 10.1.1). However, if no evidence of an existing or former chemical storage tank is identified in the basement of the structure, it is recommended that a remote sensing survey be performed on the subject property to confirm or refute the existing or former presence of an UST on the subject property. Furthermore, it would be recommended that a limited subsurface investigation be performed to determine if the operation of the UST actuated a release of product to the subsurface soils and / or groundwater of the subject property. It should be noted that this fill pipe might correspond to the gasoline UST discussed in item 1 above.
5. Several off-site confirmed or potential contamination sources were identified to exist within the ASTM search radius. The need for the above-recommended on-site investigative activities is further supported by the presence of these sources.

10.1.3 Recommended Phase III ESA Activities

Additional activities may be required as a result of the Phase I investigation. These include the performance of remediation activities. It should be noted that the scope of these activities may be modified based on a Phase II investigation.

1. Review of the Incorporated Village of Hempstead Building Department Records revealed that a gasoline UST was formerly maintained on the subject property. Should the remote sensing survey recommended in section 10.1.2 confirm the presence of the UST, it would need to be removed in accordance with all applicable codes, rules, and regulations.

2. During the site inspection, a fill pipe for a chemical storage tank was observed on the subject property. Should the remote sensing survey recommended in section 10.1.2 confirm the presence of an UST, it would need to be removed in accordance with all applicable codes, rules, and regulations.
3. Review of the Incorporated Village of Hempstead Building Department Records revealed that an oil / water separator and several floor drains were located in the building on the subject property. It is recommended that the oil / water separator identified on the subject property be properly abandoned and that the floor drains on the subject property be properly sealed.

10.1.4 Recommended Compliance Activities

Compliance activities may be required based on the Phase I investigation. These include the performance of compliance activities that currently do not directly affect the environmental quality of the subject property.

1. All debris observed on the subject property should be removed from the premises and disposed of in accordance with all applicable codes, rules, and regulations.

10.2 Conclusions

Kosuri Engineering & Consulting, P.C. has performed a Phase I environmental site assessment of the property in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry. Where applicable, the assessment included a thorough visual inspection of the property, the examination of publicly and privately available records concerning the current and prior uses of the subject property, and interviews with the current owners and/or operators of the subject property.

Based upon this assessment, dated October 16, 2000, Kosuri Engineering & Consulting, P.C. concludes that activities occurring on the subject property may have acted to degrade the environmental quality of the subject and/or surrounding properties. Accordingly, Phase II Environmental Site Assessment activities are required to define and/or enhance the environmental quality of the subject property.

The findings presented in this site assessment are based on data obtained under the scope of this investigation. The conclusions represent the professional judgment of qualified Kosuri Engineering & Consulting, P.C. staff members using available information.

Kosuri Engineering & Consulting, P.C.


Eshwar Kosuri, P.E.
Greg Harris, C.E.I.

11. QUALIFICATIONS OF KEY PERSONNEL

Following are the qualifications of the personnel involved in the preparation of this ESA.

Gregory Harris

Education Bachelor of Science-Environmental Studies-State University of New York at Buffalo, 1997
Associates Degree-Natural Resources Conservation-State University of New York at Morrisville, 1994

Professional Experience **Kosuri Engineering & Consulting, P.C., New Hyde Park** 1998-present
Environmental Scientist

- Conducts government record searches and file reviews in association with the performance of Phase I Environmental Site Assessments
- Utilizes various publicly and privately compiled computer databases to satisfy the requirements of ASTM E-1527
- Conducts corporate compliance work, specifically in the area of storm water discharge permits
- Conducts site reconnaissance work

*Town of Smithtown, Department of Environment and Waterways,
Smithtown, NY 1998
Intern*

- Worked with site plans and Environmental Assessment Forms, and Environmental Impact Statements
- Worked in Smithtown's Shellfish Restoration Program, "Right to Know" training, and other programs designed to comply with OSHA regulations

Myles Clewner, C.E.I.

Education Masters of Professional Studies-State University of New York at Stony Brook, 1998
Waste Management Certificate-State University of New York at Stony Brook, 1996
Bachelor of Science-Operations Research and Industrial Engineering-Cornell University, 1990

Professional Experience **Kosuri Engineering & Consulting, P.C., New Hyde Park** 1991-present
Assessment Services Director

- Manager of Phase I Environmental Site Assessment and Audit Department
- Conduct environmental inspections
- Design of sampling and remediation projects
- Management of Freedom of Information requests
- Implementing multi-media sampling plans for soil and groundwater remedial
- Investigations/feasibility studies
- Involved in the consultation, permit acquisition, and engineering of waste management facilities

Cellu-Craft, New Hyde Park, NY 1991
Quality Control Engineer

- Responsible for continuous quality control of the production process
- Performed chemical and physical tests on products to ensure strict compliance codes
- Directed personnel on proper production adjustments

Achievements

- OSHA 40-hour Marine Response Training
- NYS Department of Health Certified Asbestos Inspector
- Environmental Assessment Association Certified Environmental Inspector

Organizations

- Member of the National Groundwater Association
- Member of the Environmental Assessment Association

DISCLAIMER

The purpose of this investigation was to identify potential sources of contamination at the subject property, and to satisfy the all appropriate inquiry standard set forth in Section 9601 (35) (b) of CERCLA. The findings and conclusions set forth in this report are based upon information that was available to Kosuri Engineering and Consulting, P.C. during its inspection of the property. If new information becomes available concerning the property after this date, or if the property is used in the future in a manner other than that which is identified in this report, the findings and conclusions contained herein may have to be modified. Additionally, while this investigation was performed in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry, Kosuri Engineering and Consulting, P.C. can not guarantee that the property is completely free of hazardous substances or other materials or conditions that could subject the Client to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of soil and groundwater samples, which was beyond the scope of this investigation.

KOSURI ENGINEERING & CONSULTING, P.C.
Environmental Site Assessment

Appendices

KOSURI ENGINEERING & CONSULTING, P.C.
Environmental Site Assessment

Appendix A
Federal Government

KOSURI ENGINEERING & CONSULTING, P.C.

31 KNOLLS DRIVE, NEW HYDE PARK, NY 11040-1110
TELEPHONE (516) 365-7400 FAX (516) 365-2029

Ms. Wanda Vasquez
U.S. E.P.A.
External Programs Division
290 Broadway
New York, New York 10007-1866

Re: *FOI Request for the property listed below*

Dear Ms. Vasquez:

I am writing to formally request any information regarding the environmental quality of the property listed in the table below.

Address	Listing
48 Sewell Street, Hempstead	Former Bus Garage

Said request should include any information regarding storage of toxic or hazardous materials, inspections of the property, violations, sampling performed on the property, permits, etc.

Your consideration in this matter is greatly appreciated. Please feel free to contact me if you have any questions regarding this request.

Sincerely,
Kosuri Engineering, P.C.


Greg Harris
Environmental Scientist

KOSURI ENGINEERING & CONSULTING, P.C.
Environmental Site Assessment

Appendix B
State Government

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPLICATION FOR ACCESS TO RECORDS

(See Instructions on Reverse Side)

NUMBER

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• TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:

I hereby apply to inspect the following records under the provisions of the Freedom of Information Law:

Name: Former Bus GarageAddress: 48 Sewell Street, Hempstead, NY

Performing environmental site assessment - interested in storage of toxic materials, inspections, violations, permits,

etc.

Also Interested in #9203597 & 9507338

After inspection, should I desire copies of all or part of the records inspected, I will identify the records to be copied and hereby offer to promptly pay the established fees. (Cost of reproduction or 25¢ per page as applicable). Contact me if cost will exceed \$ 30.00.

Name (Print or type) Greg HarrisTelephone No. (631) 269-8800Attention of: Kosuri Engineering, P.C.Mailing Address One Village Plaza, Kings Park, New York 11754

Signature _____

Date 09-28-00R
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• TO THE APPLICANT:

—Records Provided

- ☐ The reproduction costs for the records provided are \$ _____
- ☐ Records have been (partially, fully) provided. (If not fully provided, date when records are expected to be fully provided: _____)

—Records Not Available

- ☐ Records cannot be found after diligent search
- ☐ The Department is not the custodian for records indicated

—Records Denied

I hereby certify that access to the records—or part of the records—circled above has been denied to the applicant for the reason(s) checked below:

- | | |
|---|--|
| <input type="checkbox"/> Specifically exempt by other statute
<input type="checkbox"/> Unwarranted invasion of personal privacy
<input type="checkbox"/> Would impair present or imminent contract awards or collective bargaining negotiations
<input type="checkbox"/> Are examination questions or answers
<input type="checkbox"/> Are inter-agency or intra-agency materials that are not: <ul style="list-style-type: none"> • statistical or factual tabulations or data • instructions to staff that affect the public • final agency policy or determinations; or • external audits, including but not limited to audits performed by the comptroller and the federal government | <input type="checkbox"/> Would endanger the life or safety of any person
<input type="checkbox"/> Are compiled for law enforcement purposes and which, if disclosed would: <ul style="list-style-type: none"> • interfere with law enforcement investigations or judicial proceedings • deprive a person of the right to a fair trial or impartial adjudication • identify a confidential source or disclose confidential information relating to a criminal investigation, or • reveal criminal investigative techniques or procedures, except routine techniques and procedures |
|---|--|

☐ Are trade secrets☐ Are computer access codes

Identification of records withheld (attach listing if additional space is required) and/or explanation if appropriate:

KOSURI ENGINEERING & CONSULTING, P.C.
Environmental Site Assessment

Appendix C
County Government

APPLICATION FOR PUBLIC ACCESS TO ENVIRONMENTAL HEALTH RECORDS
NASSAU COUNTY DEPARTMENT OF HEALTH

TO: Records Access Officer
Nassau County Department of Health
240 Old Country Road
Mineola, New York 11501

Date of Request: 09-28-00

Fax: (516) 571-1475, 571-3369

I Greg Harris

Print your name

Signature

REPRESENTING Firm Kosuri Engineering, P.C.

Client

Your Mailing Address One Village Plaza, Kings Park, New York 11754

Phone Number (631) 269-8800

Fax Number (631) 269-1599

HEREBY APPLY TO INSPECT RECORDS FOR THE FOLLOWING ESTABLISHMENT:

Complete One Application For Each Establishment

Name Former Husslein Inc. & Semke Bus Co.

Previous Name

Address 48-56 Sewell Street, Hempstead

No., Street, Community

(We cannot identify parcels by their Section/Block/Lot)

Is the Establishment still in business? Yes or No

If no, enter year closed (This is necessary to retrieve the file.)

REASON FOR REQUEST: Performing Phase I Environmental Site Assessment - interested in storage of toxic or hazardous materials, permits, inspections, violations, etc.

PLEASE CHECK THE BUREAUS WHOSE FILES YOU REQUEST TO BE SEARCHED:

*Note: Requests for Lead Files **MUST** use separate Lead FOIL Form available from Records Access Officer*

- ☒ Bureau of Water Supply Protection has files concerning: Drinking Water; Private Wells; Ground Water Quality; Backflow Prevention Devices; Bottled Water; Realty Subdivision; Private Sewage Disposal; Sewer Extensions, Sewer Connections, Underground Injection Control (exc. dry cleaners).
- ☒ Bureaus of Environmental Management and Engineering have files concerning: Petroleum & Chemical Tanks & Bulk Storage, Including Spills and Leaks; Medical Wastes; Solid Wastes; Air Emission Permits; Road Salt Storage; Underground Injection Control (dry cleaners only).
- ☐ Bureau of Environmental Investigation and Assessment has files concerning: Environmental Investigations and Complaints including Odors; Asbestos; Tobacco Smoking.
- ☐ Bureau of Environmental Sanitation has files concerning: Food Protection; Summer Camps; Temporary Residences; Housing; Rodent Control; Heat; General Nuisance; Bathing Facilities; Radiological Health.

FOR HEALTH DEPARTMENT USE ONLY BELOW THIS LINE

Signature

Date

☐ Approved

☐ Denied

THOMAS E. GULOTTA
COUNTY EXECUTIVE

JOHN R. SPECHT
FIRE MARSHAL



NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL

899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553
516-566-5300

APPLICATION FOR PUBLIC ACCESS TO RECORDS

TO: Records Access Officer

DATE: 09-28-00

I hereby apply to inspect the following record: (Exact address including Number & Street)

Hazmat, Industrial, and General Inspection Divisions files for information on:

48 Sewell Street, Hempstead, NY

Reason for inspection: (Be specific)

Performing a Phase I Environmental Site Assessment.

Greg Harris

Name (Please Print)

Pending Litigation

YES ☐

NO ☒

Signature

Person or Firm your office represents

Kosuri Engineering, P.C.

Representing (Business Name)

One Village Plaza

Mailing Address: Kings Park, New York 11754

Address

Phone No.: (631)269-8800

FOR FIRE MARSHAL USE ONLY

☐

Approved

☐

Record of which this Agency is Legal Custodian, cannot be found

☐

Denied for reason(s) checked

☐

Record is not Maintained by this Agency

☐

Confidential Disclosure - Part of Investigatory Files

☐

Exempted by Statute other than Freedom of Information Act

☐

Unwarranted Invasion of Personal Privacy

☐

Other

Signature

Title

Date

NOTICE: You have a right to appeal denial of this application to the head of this agency.

Fire Marshal _____, 899 Jerusalem Avenue, PO Box 128, Uniondale, NY 11553, who must fully explain his reasons for such denial in writing within seven days of receipt of an appeal.

I hereby Appeal:

Signature

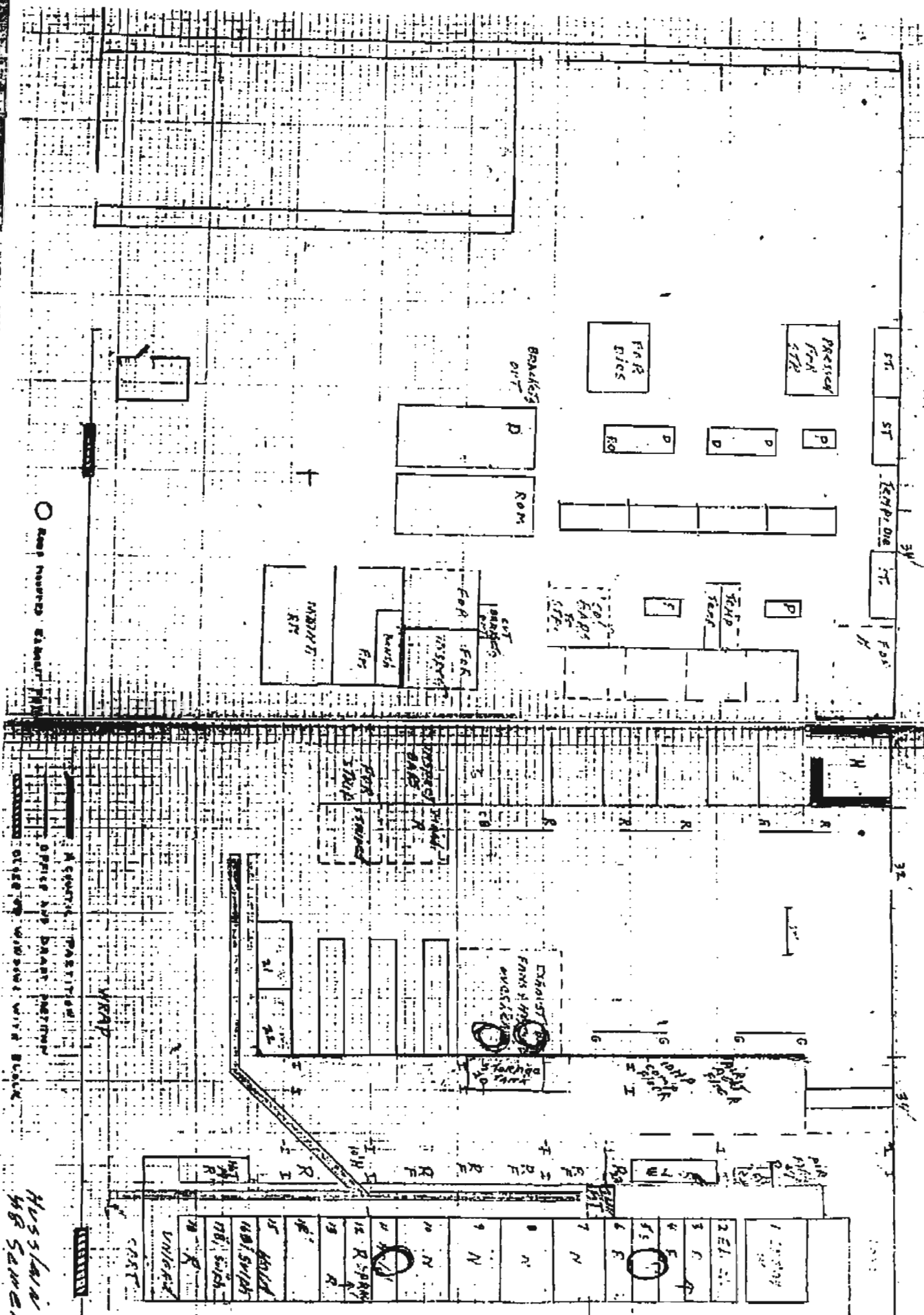
Date

PMACCESS(011481)

GENERAL INSPECTION 566-5256 • HAZ MAT 566-5254 • INDUSTRIAL 566-5277 • SCHOOLS 566-5272
INSTITUTIONAL 566-5251 • INVESTIGATIONS 566-5218 • LICENSE & PERMITS 566-5241

KOSURI ENGINEERING & CONSULTING, P.C.
Environmental Site Assessment

Appendix D
Municipal Government



4453/1012
448 Seize!

4939

Re: New Building
Senke Bus Line, Inc.
Sewell Street
Hempstead, L.I., N.Y.

Empire State Bldg.
New York 1, N. Y.
November 7, 1945

Plan No. SF-1618

Mr. Andrew R. Fritz
150 South Forest Avenue
Rockville Centre, N. Y.

Dear Sir:

On examination of revised plans for the above project, we note as follows:

DESCRIPTION

1. It is proposed to construct a building 100 by 150 feet, having exterior walls of masonry, floor of concrete and wood, and roof of wood with slag roofing. It is to be occupied as a bus garage in which five men will be employed repairing and servicing buses, and two men and three women at office work.

Adequate sanitary facilities for the contemplated occupancy will be provided.

CONDITIONAL APPROVAL

2. Our letter of conditional approval dated July 3, 1945 required two fireproof enclosed stairways remote from each other to be provided for the second floor space which has now been relocated on the first floor.

Having this action on the requirements of the Labor Law and Industrial Code and assuming no responsibility for the adequacy of the structural elements involved we are returning one set of plans under separate cover, approved subject to the following:

- (a) Toilet room doors shall be self-closing.
- (b) The windows for ventilation of toilet rooms shall have areas of 6 square feet for one watercloset plus one square foot for each additional watercloset or urinal, half of the required area to be operable.

A set of approved plans shall be retained at the site of the work so that inspectors of this Department may consult them when inspecting the building during the course of construction.

Street Sewell No. 48 Block 2 630
Location S/E Corner Sewell & No Name St. MIRSCHER ST
Map Hemp City Park. SEC. 35 Lot No 21-28 Size 160 x 100
Owner R. Wm. Semke. Address 5 Liberty Court, Hemp.
Builder J.J. Dixon, Inc. Address Roosevelt, N.Y.
Estimated Cost \$40,000.00 Fee \$35.00
Size—Main Bldg. _____ Size—Garage _____
Bldg. Permit No. 4939 Plan No. _____ Date Oct. 17/45.
Occupancy Permit No. 2322 Date _____
Water Meter No. _____
Plumbing Permit No. _____
Remarks: Erect Private Storage Garage.
Cert. Copy #144 of C.O. #2322 req. by Guar. Title Div. 6/7/66
Cert. Copy #10784 of C.O. 2322 req. by Abstracters' Info. - 7/1/98
BUREAU OF BUILDINGS (New Work)

AUG 1 1961

PETER SCHOLL INC.

Pump and Tank Contractor

43 West 10th Street
Huntington Station, N. Y.

July 22, 1961

Mayor & Board of Trustees
Village of Hempstead
99 Nichols Court
Hempstead, L.I., N.Y.

RE: Semke Bus Co.
William Semke
Sewell & Minshel St.
Hempstead, L.I., N.Y.

Property location:
Sec. 35 Blk. 638
Lots 21-28 incl. Lots 29 & 30

*48 SEWELL ST

Dear Sirs;

Application is being made to secure permit to install the following equipment:

Proposed installation of 1 - 2000 Gal. underground tank and 1 - gasoline pump at the above mentioned location. Tank to be in open open driveway and tank is to be installed as per Village of Hempstead Specifications.

APPROVED
BOARD OF
TRUSTEES
RESOLUTION

DATE 8/1/61
VILLAGE CLERK

Respectfully yours,

Peter Scholl pres.

Peter Scholl Inc.
Pump & Tank Contractor
43 West 10th Street
Huntington Station, L.I., N.Y.

JUL 24 1961

CHIEF OF INSPECTORS

Chief Arthur Rama
7-26-1961

In oh of Super of Inspector to Act
* In Chief Rama
→ Return to have Vouch
7/27/61 Village Clerk

12266

JUL 27 1961

St Sewell No. 48 Zone _____

Location _____

Section 35 Block 638 Lot No. 21-28 incl 29-30 Size _____

Owner Semke Bus Co. Address 48 Sewell St., Hempstead, NY

Builder Peter Scholl, Inc. Address 43 W. 10 St. Huntington Sta. NY

Estimated Cost \$ ----- Fee \$ 10.00

Size — Main Bldg. _____ Size — Garage _____

Bldg. Permit No. 12266 Plan No. _____ Date July 27, 1961

Occupancy Permit No. _____ Date _____

Water Meter No. _____ Date _____

Plumbing Permit No. _____ Date _____

Remarks: Permission to install 1-2000 gal. underground gasoline storage tank
completed 8-16-61

BUREAU OF BUILDINGS (New Construction)

Form No. A87-473-23

744 Sevel Street

No. 118 Zone 11B

Location

Section 35 Block 638

Lot No. 21 to 28

Owner L. Husslein, Jr.

Address 195 Peninsula Blvd., Hempstead

Builder Owner

Address

Estimated Cost \$ 500.00

Feet 2.50

Size Main Bldg

Bldg Permit No. 16081

Date July 28th, 1972

Certificate of Alteration No. 2795

Date June 13th, 1973

Remarks Close windows and other interior alterations as per plan.

ONE TO ALTERNATE



ING. VILLAGE OF HEMPSTEAD

99 NICHOLS COURT
HEMPSTEAD, N.Y. 11551

NOTICE OF VIOLATION

TO: Mr. Ludwig Husslein DATE: January 22, 1992

ADDRESS: 43 Stillwater Lane, Nissequoque, New York 11780

YOU ARE HEREBY NOTIFIED THAT AN INSPECTION OF PREMISES LOCATED AT:

48 Sewell Street, Hempstead, New York 11550

SECTION _____ BLOCK _____ LOT(S) _____

WAS MADE ON Jan. 3, 1992 AND DISCLOSED THE FOLLOWING VIOLATIONS:

Cross connection control device not installed;
Water continually running in urinal and hand wash sink;
Hand wash sink installed without first obtaining a plumbing permit;
Illegal trap under the office lavatory;
Processing tanks and acid tanks installed without first obtaining a plumbing permit;
Plastic water piping being used.

FAILURE TO CORRECT THE ABOVE VIOLATIONS BY Jan. 31, 1992 WILL RESULT IN COURT ACTION AND/OR THE VILLAGE OF HEMPSTEAD DOING THE NECESSARY WORK, OR ENGAGING A CONTRACTOR TO PERFORM THE SAME, AND ASSESSING THE ACTUAL COST OF SUCH WORK UPON THE LOT OR PARCEL OF LAND, AND THAT SUCH COSTS SHALL BE COLLECTED IN THE SAME MANNER AND AT THE SAME TIME AS PROVIDED BY LAW FOR THE COLLECTION OF DELINQUENT TAXES.

SHOULD YOU HAVE ANY QUESTIONS REGARDING THIS MATTER, PLEASE CONTACT THE UNDERSIGNED AT (516) 489-3400, EXT. 232.

Frank Lico

Frank Lico
Deputy Supt. of Bldg. Dept.

FL:cs

cc: James A. Garner, Mayor

KOSURI ENGINEERING & CONSULTING, P.C.
Environmental Site Assessment

Appendix E
Environmental Regulatory Database Review/Search

ENVIRONMENTAL REGULATORY DATABASE REVIEW / SEARCH

SITE LOCATION

**48 SEWELL STREET
HEMPSTEAD, NEW YORK**

PROJECT NUMBER

00-408

DATE

OCTOBER 3, 2000



Impact Environmental
achieving impact on environmental quality, inc.

**1 VILLAGE PLAZA
KINGS PARK, NEW YORK 11754
516.269.8800 TELEPHONE
516.269.1599 FACSIMILE**



Impact Environmental

advisingimpactenvironmental.com

1 VILLAGE PLAZA
KINGS PARK, NEW YORK 11754
516.269.8800 TELEPHONE
516.269.1599 FACSIMILE

SUMMARY OF FINDINGS

<u>USEPA Databases</u>	<u>Search Distance</u>	<u>Subject Property</u>	<u>Adjoining Properties</u>	<u><1/2 mile</u>	<u>1/2 - 1 mile</u>
NPL	1 mile	No	No	No	No
CERCLIS	1/2 mile	No	No	One	N/A
RCRA TSD	1/2 mile	No	No	No	No
RCRA Generators	Subject & Adjoining	No	No	N/A	N/A
RCRA CORRACTS	1 mile	No	No	No	No
ERNS	Subject	No	N/A	N/A	N/A

<u>NYSDEC Databases</u>	<u>Search Distance</u>	<u>Subject Property</u>	<u>Adjoining Properties</u>	<u><1/2 mile</u>	<u>1/2 - 1 mile</u>
Inactive Haz. Waste Disp. Sites	1 mile	No	No	One	One
Haz. Subs. Waste Disp. Sites	1 mile	No	No	No	No
Solid Waste Facilities	1/2 mile	No	No	No	N/A
SPDES Permits	Subject & Adjoining	No	No	N/A	N/A
PBS	Subject & Adjoining	No	No	N/A	N/A
CBS	Subject & Adjoining	No	No	N/A	N/A
MOSF	1/2 mile	No	No	No	N/A
Spill Log	1/2 mile	One	No	Yes	N/A

<u>SCDHS / NCHD Databases</u>	<u>Search Distance</u>	<u>Subject Property</u>	<u>Adjoining Properties</u>	<u><1/2 mile</u>	<u>1/2 - 1 mile</u>
Toxic & Haz. Materials Registry	Subject & Adjoining	No	No	N/A	N/A

USEPA Resource Conservation and Recovery Database

EPA ID **NYR000045823** Generator Type **SQG**
Site Name **GAPO AUTO BODY DBA MAACO**
Street Address **63 POLK AVE**
City **HEMPSTEAD** County **NASSAU**
Zip Code **11550** Notes

◆ **Impact Environmental Consulting, Inc.**
One Village Plaza, Kings Park, New York 11754

NYSDEC Solid Waste Facilities Listing

Facility Name

[REDACTED]

Facility ID

[REDACTED]

Permit Number

[REDACTED]

Street Address

[REDACTED]

Owner Type

[REDACTED]

Zip

[REDACTED]

Regulatory Status

[REDACTED]

City

[REDACTED]

Owner

[REDACTED]

Waste Type

[REDACTED]

County

[REDACTED]

Notes:

[REDACTED]

NYSDEC HSDSS Listing

SITE_NAME	[REDACTED]	SITENUMBER	[REDACTED]	REGION	[REDACTED]
STREET_ADD	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
COUNTY	[REDACTED]	EPA_ID	[REDACTED]	LASTUPDATE	[REDACTED]
REGISTRY	[REDACTED]	REG_SITEID	[REDACTED]	RCRA	[REDACTED]
				SITE_CODE	[REDACTED]

OWNER	[REDACTED]	OWNER_NAME	[REDACTED]
OWN_STREET	[REDACTED]	OWNER_TELE	[REDACTED]
OPERATOR	[REDACTED]	OPER_NAME	[REDACTED]
OP_STREET	[REDACTED]	[REDACTED]	[REDACTED]
QUADRANGLE	[REDACTED]	LONGITUDE	[REDACTED]
		LATITUDE	[REDACTED]

DESCRIBE

[REDACTED]

HAZSUBSTAN

[REDACTED]

HAZ_THREAT

[REDACTED]

CLOSE_DATE

[REDACTED]

STATUS

[REDACTED]

HAZ_EXPOSE

[REDACTED]

PREPARER

[REDACTED]

AGENCIES

[REDACTED]

Site ID [REDACTED] EPA ID [REDACTED] Region [REDACTED]
Site Name [REDACTED]
Address [REDACTED]
County [REDACTED] State [REDACTED] ZIP [REDACTED]
NFRA [REDACTED] RCRA [REDACTED] HAZ_WS [REDACTED]
FED_F [REDACTED] SMSA [REDACTED] RSITINC [REDACTED]
SSID_ [REDACTED] ROT_ [REDACTED] HYDRO_ [REDACTED]
RSIT_ [REDACTED] NPL_ [REDACTED]

Site ID [REDACTED] EPA ID [REDACTED] Region [REDACTED]
Site Name [REDACTED]
Address [REDACTED]
County [REDACTED] State [REDACTED] ZIP [REDACTED]
NFRA [REDACTED] RCRA [REDACTED] HAZ_WS [REDACTED]
FED_F [REDACTED] SMSA [REDACTED] RSITINC [REDACTED]
SSID_ [REDACTED] ROT_ [REDACTED] HYDRO_ [REDACTED]
RSIT_ [REDACTED] NPL_ [REDACTED]

Site ID [REDACTED] EPA ID [REDACTED] Region [REDACTED]
Site Name [REDACTED]
Address [REDACTED]
County [REDACTED] State [REDACTED] ZIP [REDACTED]
NFRA [REDACTED] RCRA [REDACTED] HAZ_WS [REDACTED]
FED_F [REDACTED] SMSA [REDACTED] RSITINC [REDACTED]
SSID_ [REDACTED] ROT_ [REDACTED] HYDRO_ [REDACTED]
RSIT_ [REDACTED] NPL_ [REDACTED]

US EPA CERCLIS LISTING

Site ID # **0203792** EPA ID # **NYD982183550**
Facility Na **FRANKLIN CLEANERS**
Address **206-208B SOUTH FRANKLIN STREET**
Second Addre
City **HEMPSTEAD** State **NY** ZIP **11550**
County **NASSAU** NPL_STATS **N**
Federal Facility **N**
LATITUDE LONGITUDE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
Inactive Hazardous Waste Disposal Report

April 1, 2001

Site Name: Franklin Cleaners		Site Code: 130050
Class Code: 2	Region: 1	County: Nassau
Address: 206-208 B, South Franklin Street	City: Hempstead	EPA Id: NYD9821835
Latitude: 40 41' 8"	Longitude: 73 37' 24"	Zip: 11550
Site Type: Structure	Estimated Size: 0.124 Acres	

Site Owner / Operator Information:

Current Owner(s) Name: Ms. Inconata Perna		
Current Owner(s) Address: 867 Taft Street	West Hempstead	NY 11552
Owner(s) during disposal: Ms. Inconata Perna		
Operator(s) during disposal: Franklin Cleaners / Grace Cleaners		
Stated Operator(s) Address: 206-208B S. Franklin St.	Hempstead	NY 11550
Hazardous Waste Disposal Period: From 1980	To 1991	

Site Description:

The current location of Franklin Cleaners has operated as a dry cleaning establishment since 1957 or prior to this date. The name was changed to Grace Cleaners in 1990. The owner has reported the occurrence of leaks and spills from the machines and equipment. The dry cleaning operation was replaced by a retail clothing store in 1991. In 1990, the NCDOH collected water samples from a nearby private drinking water well and an irrigation well, both located at 6 Linden Avenue, Hempstead. Both wells are hydraulically downgradient of the former dry cleaners. The laboratory analysis revealed PCE at 5,500 ppb and 29,000 ppb respectively. In April of 1990, surface soil samples taken from the suspected upgradient source revealed PCE at levels as high as 650,000 ppb. A PSA for the site was completed in March of 1993. The downgradient groundwater samples taken during that investigation found PCE at 83 ppb. Although this concentration of 83 ppb is more than an order of magnitude lower than the levels initially found in the private wells, it is still well above the NYS Class GA Standard for PCE. The confirmed disposal of hazardous waste at Franklin Cleaners is not the only potential source of PCE contamination in the area as upgradient contamination has also been verified. This contamination is being released to the underlying sole-source aquifer. The site was referred to the State Superfund Program for a RI/FS Study on November 6, 1995. A final RI/FS Workplan was issued in November 1996 and fieldwork began in December 1996 and was completed in April 1997. A contaminant plume extends nearly one mile downgradient of the site with total VOC levels of up to 3 ppm. Significant upgradient contamination has also been identified and appears to be related to one or more dry cleaning establishments. On-site soils and indoor air are also impacted. A ROD was signed on March 30, 1998. The selected remedy consists of SVE treatment of the contaminated soils under the former dry cleaning building, and off-site groundwater extraction and treatment at the leading edge of the groundwater plume. The remedial design of the remedy began is underway.

Confirmed Hazardous Waste Disposal:
Tetrachloroethylene (PCE or "perc.") F002)

Quantity:
unknown

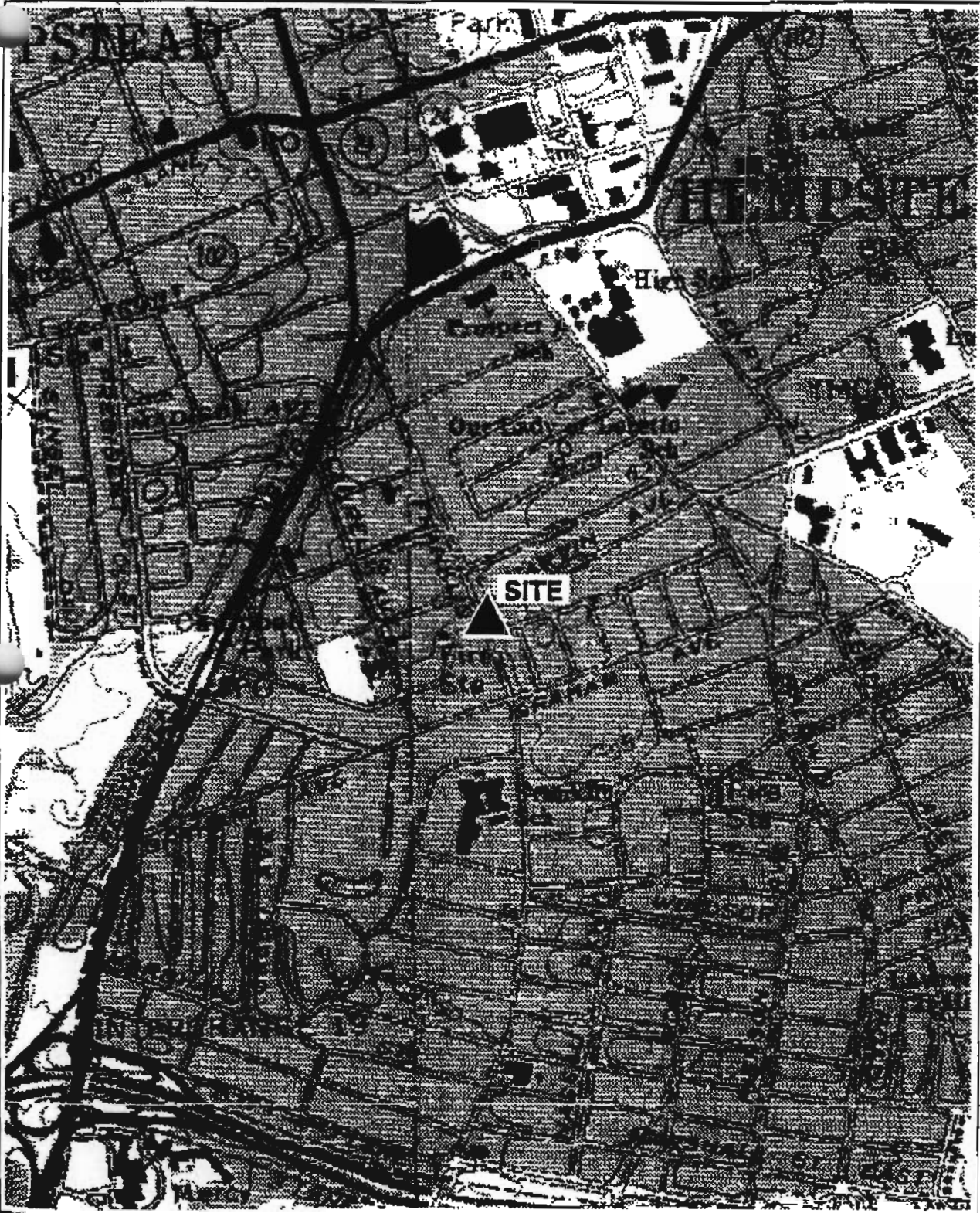
Analytical Data Available for:	Groundwater	Soil
Applicable Standards Exceeded in:	Groundwater	
Geotechnical Information:		
Soil/Rock Type: Glacial sand and gravel.	Depth to Groundwater:	Range: 20 to 25 feet.
Legal Action: Type:		Status:
Remedial Action: In Design	Nature of action: SVE, off-site gw extraction & treatment.	

Assessment of Environmental Problems:

Tetrachloroethylene (PCE), trichloroethylene (TCE), & cis-1,2-dichloroethylene contaminated soil in the rear alley & basement of the Franklin Cleaners property have not been removed. These contaminants were also found in the groundwater.

Assessment of Health Problems:

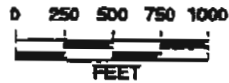
Private drinking water wells previously contaminated with tetrachloroethene (PCE) are not used; public water has been extended to the affected residences. The groundwater contaminant plume is migrating toward three public water supply wells. This plume will be intercepted and remediated to ensure that contamination does not impact the supply wells. PCE has been detected in a downgradient irrigation well that serves a college campus; NYSDEC will construct a deeper irrigation well for the college. Soils on-site are contaminated with PCE at concentrations up to about 350 times the cleanup criteria. Indoor air contamination with PCE at concentrations above NYSDOH guidelines has been documented in the building on-site and the neighboring commercial building. NYSDEC has installed high-volume carbon filter units to reduce contamination in these buildings. A proposed soil vapor extraction system will permanently address the issue of indoor air contamination.



Site Location Map

130050 Franklin Cleaners

Map source: USGS 1:24,000-scale topographic quadrangles



Scale 1:12,000

April 1, 2000



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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
Inactive Hazardous Waste Disposal Report

April 1, 2000

Site Name: Harder Tree Service		Site Code: 130035	
Class Code: 2	Region: 1	County: Nassau	EPA Id:
Address: 63 Jerusalem Avenue		City: Hempstead	Zip: 11756
Latitude: 40 42' 7" Longitude: 73 33' 54"			
Site Type: Structure		Estimated Size: 1	Acres

Site Owner / Operator Information:			
Current Owner(s) Name:	Harder Tree Service		
Current Owner(s) Address:	63 Jerusalem Ave.	Hempstead	NY 11550
Owner(s) during disposal:	Harder Tree Service/Frank Harder Jr.		
Operator(s) during disposal:	Harder Tree Service		
Stated Operator(s) Address:	63 Jerusalem Ave.	Hempstead	NY
Hazardous Waste Disposal Period:	From 1953	To present	

Site Description:

This site is used for storage and maintenance of Harder Service's equipment and also houses the corporate headquarters. Most of the central portion of the site is paved, with drainage into the catch basins and drywells. On November 7, 1984 several 100 gallon containers of methoxychlor were spilled on site. Most of the spilled compound was collected and pumped back into the original containers. In 1988, a Phase II investigation was conducted by the responsible party. Soil samples from one of the monitoring well borings were found to be highly contaminated with pesticides and another with petroleum hydrocarbons. Soil samples from four additional soil borings around this area were similarly contaminated. The contamination seen in these soil samples extends to the water table, thereby threatening further contamination of the groundwater. Groundwater on and off the site was contaminated with chlordane and other pesticides. After many attempts to get the responsible party to cooperate, this site was referred to the Division of Environmental Remediation (DER) for remediation with State Superfund money. A standby contract work assignment was issued to a consultant, however, the PRP would not permit access to the property for the fieldwork. The New York State Attorney General's Office was pursuing a court order to access the site, when the PRP finally agreed to perform an investigation. The PRP conducted the sampling in January of 1999 as part of a site assessment update and a site assessment update report was finalized in May 1999. This assessment identified that significant levels of pesticides are still present in on-site soils, groundwater and leaching pools. Based on the results of this investigation, an RI/FS is necessary. The DEC is currently negotiating with the PRPs for an RI/FS Consent Order.

Confirmed Hazardous Waste Disposal:

Methoxychlor
Chlordane
Endosulfan
Dieldrin
Heptachlor
Other Pesticides

Quantity:

unknown
unknown
unknown
unknown
unknown
unknown

Analytical Data Available for:	Groundwater	Soil	Sediment
Applicable Standards Exceeded in:	Groundwater	Drinking Water	
Geotechnical Information:			
Soil/Rock Type: Coarse sand and gravel.			Depth to Groundwater: Range: 25 to 30 feet.
Legal Action: Type: State Consent Order		Status: Order Signed	
Remedial Action:		Nature of action:	

Assessment of Environmental Problems:

Groundwater contamination in excess of NYS standards, has affected a sole source drinking water aquifer.

Assessment of Health Problems:

The site is located in a residential/commercial area. Shallow soils on-site are contaminated with elevated levels of the pesticides chlordane, methoxychlor, and Dursban. Surface soil data on and off-site is needed. Runoff or windborne contaminated dust may transport pesticides onto neighboring properties. At least one residential lot adjoins the site, but this property is owned by the tree service company. Five pesticides have been detected in downgradient groundwater monitoring wells during two sampling rounds. Exposure to contaminated groundwater is not expected since the area is served by public drinking water supplies. Public water suppliers utilize deep groundwater wells which have not been impacted by the site.

NYSDEC SPILL REPORT

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8603545	8/28/86	12/22/95	JACK KAHGAN SALES	605 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL	0	Equipment Failure	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8604514	10/13/86		AMOCO	ROBINWOOD & GREENWICH	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE	0	Tank Failure	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8605106	11/21/86	12/1/86	SLOMINS	23 SOUTH FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL	3	Equipment Failure	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8703992	8/13/87	8/19/87	UNK	FRONT ST & FRANKLIN AVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
UNKNOWN PETROLEUM	0	Unknown	Unknown	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8705690	10/6/87	9/29/88	OUR LADY OF LORETTO	104 GREENWICH STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL	0	Tank Test Failure	Other Non Comm/Institutional	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8706050	10/19/87	11/16/87	OCC EXPRESS CO	449 SOUTH FRANKLINS ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
DIESEL	300	Other	Commercial Vehicle	On Land		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8706261	10/23/87	10/26/87	METAL PROCESSING	106 TAFT AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
UNKNOWN PETROLEUM		0 Unknown	Other Comm/Industrial	Air		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8708032	12/16/87	12/17/87	CORONET FROZEN FOODS	39 NEWMANS COURT	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		50 Human Error	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8709768	2/18/88	12/9/93	RANA MGT	62 NORTH FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8806009	10/14/88	12/1/88	BERKEY PHOTO	130 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Non Comm/Institutional	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8807563	12/14/88	1/30/89	SALVATION ARMY	194 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Tank Test Failure	Other Non Comm/Institutional	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8903358	7/1/89	7/10/89	LILCO	GREENWICH AVE & ANGELINE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
NON PCB OIL		35 Traffic Accident	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8904539	8/4/89	7/28/92	44 NEWMAN COURT ASSOCIATE	44 NEWMANS COURT	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
UNKNOWN PETROLEUM		0 Unknown	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8905046	8/21/89	8/23/89	LILCO	GREENWICH AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
NON PCB OIL		2 Equipment Failure	Other Non Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8906643	10/3/89	10/6/89	LILCO	FRONT ST & WILLIAMS	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
NON PCB OIL		1 Equipment Failure	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8908753	12/5/89	12/5/89	LI KEROSENE CORPORATION	797 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
KEROSENE		0 Housekeeping	Gasoline Station	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8910177	1/24/90	2/27/90	APPLE CARTING	4549 WHITSON AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
DIESEL		0 Housekeeping	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8911362	3/1/90	3/31/90	AMARADA HESS	579 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
GASOLINE		0 Tank Test Failure	Gasoline Station	Groundwater		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8911559	3/7/90	3/8/90	SUNOCO	655 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
GASOLINE		0 Other	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8911959	3/16/90	4/1/90	BARTCO PETROLEUM ET AL	210 GREENWICH STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
GASOLINE		0 Vandalism	Gasoline Station	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
8911959	3/16/90	4/1/90	BARTCO PETROLEUM ET AL	210 GREENWICH STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
HYDRAULIC OIL		0 Vandalism	Gasoline Station	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9000626	4/18/90	4/24/90	LEE MYLES	160 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
WASTE OIL		0 Unknown	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9002639	5/25/90	6/8/90	KAPCO	44 MADISON AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
#2 FUEL OIL		0 Equipment Failure	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9003723	7/2/90	5/3/91	DOBLER CHEVY	257 FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
GASOLINE		0 Tank Overfill	Other Comm/Industrial	On Land		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9003968	7/10/90	7/13/90	NORTHEASTERN S/S	771 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
GASOLINE		0 Unknown	Gasoline Station	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9004670	7/26/90	7/27/90	LEE MYLES TRANSMISSION	160 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
WASTE OIL		0 Unknown	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9004773	7/30/90		BISS	380 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
GASOLINE		0 Equipment Failure	Gasoline Station	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9006213	9/5/90	9/14/90	MYSTIC TRANSPORT	485 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
#6 FUEL OIL		50 Equipment Failure	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9010107	12/17/90	1/28/90	COMMANDER OIL	49 SOUTH FRANKLIN	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Overfill	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9010457	12/28/90	2/18/92	HEMPSTEAD PLATING COMPAN	546 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RERESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Comm/Industrial	Groundwater		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9011368	1/17/91	12/18/98	TEXACO S/S	797 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE	0	Other	Gasoline Station	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9012130	2/21/91	4/20/91	WILSON RESIDENCE	517 ADAMS AVENUE	WEST HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL	1	Tank Failure	Private Dwelling	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9100742	4/18/91	7/9/93	HEMPSTEAD HOSPITAL	800 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL	0	Tank Test Failure	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9101395	5/3/91	6/19/91	UNK	CHASNER STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
CAUSTIC SODA	0	Other	Other Comm/Industrial	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9101395	5/3/91	6/19/91	UNK	CHASNER STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
WHITE CAUSTIC	0	Other	Other Comm/Industrial	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9101395	5/3/91	6/19/91	UNK	CHASNER STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
SODIUM HYDRATE	0	Other	Other Comm/Industrial	In Sewer		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9101395	5/3/91	6/19/91	UNK	CHASNER STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
SODIUM HYDROXIDE		0 Other	Other Comm/Industrial	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9101395	5/3/91	6/19/91	UNK	CHASNER STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
LYE		0 Other	Other Comm/Industrial	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9101929	5/16/91	5/22/91	PAJ REALTY	137 NO FRANKLIN AVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#4 FUEL OIL		0 Other	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9101980	5/15/91	5/22/91	VACANT CINEMA	145 NO FRANKLIN AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#6 FUEL OIL		0 Other	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9103665	7/3/91	3/19/92	ANCHOR BRASS CO	92 TAFT AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9103665	7/3/91	3/19/92	ANCHOR BRASS CO	92 TAFT AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
CUTTING OIL		0 Tank Test Failure	Other Comm/Industrial	On Land		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9105239	8/13/91	3/12/93	NCDPW HAZ WASTE	404 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9105622	8/23/91	6/12/93	ARTHUR T MOTT	27 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		30 Tank Failure	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9106235	9/6/91		TRAILER CITY	231 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Other	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9106352	9/17/91	9/18/91	VANTAGE S/S	771 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
WASTE OIL		0 Other	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9110383	1/3/92	1/4/92	UNK TRACTOR TRAILER	OLD FRANKLIN AVE & UNION	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
UNKNOWN PETROLEUM		30 Unknown	Commercial Vehicle	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9110474	1/6/92	3/27/92	BRIDGE CRYSLER PLYMOUTH	229 NORTH FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
WASTE OIL		0 Other	Other Non Comm/Industrial	Groundwater		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9111376	2/3/92	2/11/92	HEMPSTEAD NURSING HOME	800 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	Other Comm/Industrial	On Land	RESOURCE AFFECTED
#2 FUEL OIL		0 Household				

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9112168	2/27/92	3/13/92	NCDPW DISTRICT COURT	MAIN ST & FRANKLIN AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	Other Non Comm/Industrial	On Land	RESOURCE AFFECTED
#2 FUEL OIL		0 Tank Test Failure				

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9112418	3/5/92	4/19/92	SALVATION ARMY	194 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	Unknown	Groundwater	RESOURCE AFFECTED
GASOLINE		0 Other				

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9203397	4/27/92		INDEPENDENCE ONE FINANCE	111 MADISON AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	Other Comm/Industrial	On Land	RESOURCE AFFECTED
UNKNOWN PETROLEUM		0 Household				

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9205027	8/1/92	8/5/92	AMOCO OIL CO	GREENWICH & ROBBINS ST	SOUTH HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	Gasoline Station	On Land	RESOURCE AFFECTED
GASOLINE		30 Equipment Failure				

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9205449	8/12/92		INGLESIA PENTACOSTAL	GREENWICH ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	Private Dwelling	On Land	RESOURCE AFFECTED
GASOLINE		10 Other				

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9207972	10/9/92	7/7/94	HEMPSTEAD PUBLIC SCHOOLS	265 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9209001	11/3/92	6/4/98	GOODYEAR DEALERSHIP	101 NO FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
WASTE OIL		0 Tank Overfill	Other Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9209384	11/7/92	4/27/94	ANCHOR BRASS	71 TAFT AVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Failure	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9214040	3/22/93	10/16/98	EMPIRE S/S	771 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Tank Test Failure	Gasoline Station	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9302463	5/22/93	4/18/94	LILCO	NEWMAN CT & FRANKLIN AVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
NON PCB OIL		2 Equipment Failure	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9307520	9/17/93	11/9/94	CLINTON LAWRENCE LANDLOR	273 NO FRANKLIN AVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Other	Private Dwelling	Groundwater		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9311480	12/23/93	12/23/93	FICKDOHM RESIDENCE	840 TAFT ST	WEST HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
#2 FUEL OIL			1 Traffic Accident	Private Dwelling	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9311780	1/4/94	3/16/94	DOBBLER CHEVROLET	257 NORTH FRANKLIN ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
WASTE OIL			0 Tank Test Failure	Other Comm/Industrial	Groundwater	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9312133	1/14/94	10/16/98	HEMPSTEAD GENERAL HOSPITAL	800 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
#2 FUEL OIL			0 Tank Test Failure	Other Comm/Industrial	Groundwater	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9313881	2/24/94	2/25/94	LILCO	PENINSULA BLVD/SYCAMORE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
NON PCB OIL			1 Traffic Accident	Other Comm/Industrial	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9401429	4/25/94	8/29/94	LEE MYLES TRANSMISSION	160 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
#2 FUEL OIL			0 Other	Other Comm/Industrial	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9401715	5/2/94	1/7/95	INDEPENDENCE FINANCIAL TR	11 MADISON AVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
WASTE OIL			0 Other	Other Comm/Industrial	On Land	

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9401803	5/6/94	3/2/95	UNK	709 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		3 Tank Overfill	Other Non Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9403019	5/26/94	1/7/95	INDEPENDENCE FINA SERV IN	111 MADISON STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Other	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9404146	6/23/94	11/20/94	HEMPSTEAD GOLF & CTRY CLUB	60 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Other	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9406197	8/5/94	8/13/94	TOWN OF HEMPSTEAD	350 FRONT ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Non Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9406289	8/8/94	8/10/94	JAMES CRIDER (OWNER)	FRONT ST & PRESIDENT ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		3 Tank Failure	Commercial Vehicle	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9406409	8/12/94	9/7/95	GOODYEAR	101 NO FRANKLIN ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
WASTE OIL		0 Other	Other Comm/Industrial	On Land		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9407112	8/25/94	8/26/94	CENTAGRADE INSTALLERS	81 CHASE STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		1 Equipment Failure	Private Dwelling	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9407618	9/7/94	5/28/97	BRIDGE CHRYSLER PLYMOUTH	729 NORTH FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
WASTE OIL		0 Housekeeping	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9409328	10/17/94	4/18/95	RAD OIL	257 NORTH FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		30 Tank Overfill	Tank Truck	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9410201	10/31/94	9/7/95	CARMAN RESIDENCE	82 CHASE ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
WASTE OIL		0 Housekeeping	Private Dwelling	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9410424	11/4/94	3/23/96	AMOCO S/S	138 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Tank Test Failure	Gasoline Station	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9411172	11/21/94	11/22/94	MEENAN OIL	E/O FRANKLIN/WEIR STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		3 Other	Other Comm/Industrial	On Land		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9414383	1/30/93	3/19/97	IMPORTS OF HEMPSTEAD	209 NO FRANKLIN AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		11 Equipment Failure	Tank Truck	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9415966	3/9/93	3/22/93	OCEANSIDE INST IND INC	800 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
DIESEL		30 Traffic Accident	Commercial Vehicle	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9415970	3/9/93	3/22/93	UNK	FRONT ST & HEMPSTEAD TPKE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
DIESEL		30 Traffic Accident	Commercial Vehicle	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9416160	3/9/93	9/7/93	HEMPSTEAD LINCOLN MERCUR	301 WEST FRANKLIN AVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Other	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9500291	4/7/93	5/24/93	TWN HEMPSTEAD TOWN HALL	350 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Non Comm/Industrial	Groundwater		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9502019	5/17/93	7/19/93	GREENWICH GARDENS	155 GREENWICH ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Private Dwelling	On Land		

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9505588	8/5/95	8/7/95	RESIDENCE	130 PARSONS DRIVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		1	Equipment Failure	Private Dwelling	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9506924	9/6/95	6/8/98	LILCO	FRANKLIN AVE & W COLUMBIA	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
NON PCB OIL		5	Equipment Failure	Other Comm/Industrial	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9507338	9/15/95	9/27/95	HUSLINE PARTS INCE	48 SEWELL STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
UNKNOWN PETROLEUM		0	Other	Other Comm/Industrial	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9512031	12/23/95		PENINSULA AUTO	785 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		10	Tank Overfill	Private Dwelling	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9512266	12/30/95	1/29/96	CHIN WAH NIN RESIDENCE	149 PARSONS DRIVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		5	Tank Overfill	Private Dwelling	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9516112	3/15/96	5/29/96		KERNOCHAN STREET/FRONT ST	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0	Traffic Accident	Tank Truck	In Sewer	

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9603331	6/10/96	11/20/96	NUBYS FUEL OIL	57 POLK AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
#2 FUEL OIL			0 Tank Failure	Major Facility > 400,000 gal	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9604478	7/3/96	3/28/97	HEMPSTEAD HIGH SCHOOL	PENINSULA BLVD/PRESIDENT	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
WASTE OIL			0 Deliberate	Other Non Comm/Institutional	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9605896	8/7/96		GUANACOS AUTO REPAIR	293A PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
WASTE OIL			0 Housekeeping	Other Comm/Industrial	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9607736	9/17/96	3/1/99	MOORE RESIDENCE	695 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
#2 FUEL OIL			5 Equipment Failure	Private Dwelling	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9610154	11/14/96	4/21/97	TRIBIE RESIDENCE	82 ELDRIDGE AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
GASOLINE			0 Housekeeping	Private Dwelling	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9613965	2/28/97	2/12/98	STATE INSURANCE FUND	159 NORTH FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY		SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
#2 FUEL OIL			8 Equipment Failure	Other Comm/Industrial	On Land	

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SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9703616	6/20/97	7/16/99		404 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE		RESOURCE AFFECTED
UNKNOWN PETROLEUM			2 Abandoned Drums	Other Comm/Industrial	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9705495	8/6/97	8/22/97		319 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE		RESOURCE AFFECTED
TRANSFORMER OIL			2 Equipment Failure	Other Non Comm/Institutional	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9706538	8/30/97	10/9/97	COASTAL STATION	415 SO FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE		RESOURCE AFFECTED
GASOLINE			0 Equipment Failure	Gasoline Station	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9707290	9/19/97	6/26/98	THE OLD TIMES SQUARE BLDG	300 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE		RESOURCE AFFECTED
WASTE OIL			0 Other	Other Non Comm/Institutional	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9710095	12/2/97	3/9/98	JUDEA UNITED BAPTIST CHUR	82 GREENWICH STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE		RESOURCE AFFECTED
#2 FUEL OIL			0 Tank Test Failure	Other Non Comm/Institutional	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9713507	3/5/98	3/5/98	SAPP RESIDENCE	20 CHASE STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE		RESOURCE AFFECTED
#2 FUEL OIL			10 Equipment Failure	Private Dwelling	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9805020	7/20/98	12/10/98	OLD TIMES SQUARE	WEST FRANKLIN	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
UNKNOWN PETROLEUM		0 Unknown	Unknown	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9810073	11/10/98	1/4/99		FRANKLIN AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Other	Unknown	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9811878	12/21/98		AB SHULTZ MIDDLE SCHOOL	GREENWICH AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Equipment Failure	Other Non Comm/Institutional	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9811942	12/22/98		HOFSTRA GARDENS	599 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Non Comm/Institutional	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9812001	12/23/98		HOFSTRA GARDENS	621 FRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9812422	1/7/99	3/4/99		12 NORTH FRANKLIN AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		10 Equipment Failure	Commercial Vehicle	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9900757	4/20/99	6/3/99	HEMPSTEAD TOYOTA	272 NORTH FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Tank Failure	Private Dwelling	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9900861	4/22/99	6/9/99	GREEN RESIDENCE	114 PARSONS DRIVE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Private Dwelling	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9902705	6/8/99	12/20/99		DUNCAN ROADFRONT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
TRANSFORMER OIL		2 Equipment Failure	Other Comm/Industrial	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9923129	6/9/99		CROSS PENINSULA BLVD	143 ADAMS AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Failure	Other Comm/Industrial	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9925129	6/9/99		CROSS PENINSULA BLVD	143 ADAMS AVENUE	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
DIESEL		0 Tank Failure	Other Comm/Industrial	In Sewer		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9902966	6/15/99		HEMPSTEAD NISSAN	209 FRANKLIN STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Unknown	Other Comm/Industrial	On Land		

◆ IMPACT ENVIRONMENTAL CONSULTING, INC.

ONE VILLAGE PLAZA, KINGS PARK, NEW YORK 11754

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9925176	6/30/99	3/1/00		78 BEDELL STREET/FRANKLIN	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
HYDRAULIC OIL			5 Equipment Failure	Commercial Vehicle	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9925188	6/20/99		GRAND CENTRAL	21 SOUTH FRANKLIN	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
UNKNOWN MATERIAL			0 Unknown	Other Comm/Industrial	Air	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9925208	7/20/99		SUNOCO S/S (#0285132906)	665 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
GASOLINE			0 Unknown	Gasoline Station	Groundwater	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9906861	9/8/99	9/17/99		WHITSON STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
ACETIC ACID			0 Deliberate	Other Comm/Industrial	In Sewer	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9925394	11/23/99	3/1/00	UNK (FORMER A&S)	FRONT & FULLER STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
GASOLINE			0 Equipment Failure	Other Comm/Industrial	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9911505	1/3/00	2/11/00	MORRA RESIDENCE	856 TAFT STREET	WEST HEMPSTEAD	Nassau
MATERIAL RELEASED		QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED	
#2 FUEL OIL			250 Tank Failure	Private Dwelling	On Land	

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9912751	2/8/00	3/1/00	SUPPHI VILMIRAZ GAS	PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
GASOLINE		0 Equipment Failure	Gasoline Station	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9913803	3/7/00	4/10/00	ESTATE OF NH GOLD	369 PENINSULA BLVD	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Test Failure	Private Dwelling	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
9914618	3/27/00	3/31/00	BENJERMAN RESIDENCE	35 COVERT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		0 Tank Failure	Private Dwelling	On Land		

SPILL NO	SPILL DATE	CLOSE DATE	SPILL NAME	STREET ADDRESS	CITY	COUNTY
0003844	6/23/00		RESIDENCE	39 COVERT STREET	HEMPSTEAD	Nassau
MATERIAL RELEASED	QUANTITY	SPILL CAUSE	SPILL SOURCE	RESOURCE AFFECTED		
#2 FUEL OIL		10 Equipment Failure	Private Dwelling	On Land		

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NYSDEC Spill Logs

DEC REGION # SPILL NUMBER
 SPILL NAME DEC LEAD
 CALLER NAME NOTIFIER'S NAME
 CALLER AGENCY NOTIFIER'S AGENCY
 CALLER PHONE EXT NOTIFIER'S PHONE EXT

SPILL DATE

SPILL TIME

RECEIVED DATE

RECEIVED TIME

MATERIAL CLASS TYPE
 QTY SPILLED UNSPILLED UNITS
 QTY RECOVERED UNRECOVERED

<p>NAME <input type="text" value="INDEPENDENCE ONE FINANCE"/> STREET <input type="text" value="111 MADISON AVENUE"/> CITY <input type="text" value="HEMPSTEAD"/> CO <input type="text" value="Nassau"/> CONTACT <input type="text"/> PHONE <input type="text"/> EXT <input type="text"/></p>	<p>NAME <input type="text" value="INDEPENDENCE ONE FINANCE"/> STREET <input type="text" value="P.O. BOX 5075"/> CITY <input type="text" value="SOUTHFIELD"/> STATE <input type="text" value="MI"/> ZIP CODE <input type="text"/> CONTACT <input type="text"/> PHONE <input type="text" value="(313) 352-7577"/> EXT <input type="text"/></p>
--	---

SPILL CAUSE SPILL SOURCE
 RESOURCE AFFECTED REPORTED BY

WATERBODY

CALLER REMARKS

PBS Number

TANK SUBFORM

◆ Impact Environmental Consulting, Inc.
 One Village Plaza, Kings Park, New York 1175

NYSDEC Spill Logs

Cleanup Completed ☐ Meets S.C.'s ☐ TRUE Last Inspection ☐ Penalty ☐ TRUE
RP-CUM ☐ EMF-RWT ☐ NYS-COM ☐ CAP ☐
UST Trust Eligible ☐ CLASS ☐ C3 Close Date ☐
☐ TRUE
CREATED ON ☐ 6/29/92 LAST UPDATED ON ☐ 7/22/92

DEC REMARKS

IMPACT NOTES

DEC REGION # SPILL NUMBER
SPILL NAME DEC LEAD
CALLER NAME NOTIFIER'S NAME
CALLER AGENCY NOTIFIER'S AGENCY
CALLER PHONE EXT NOTIFIER'S PHONE EXT
SPILL DATE SPILL TIME
RECEIVED DATE RECEIVED TIME
MATERIAL CLASS TYPE

◆ Impact Environmental Consulting, Inc.
One Village Plaza, Kings Park, New York 1175

NYSDEC Spill Logs

QTY SPILLED UNSPILLED UNITS
QTY RECOVERED UNRECOVERED

NAME	HUSSLINE PARTS INC			NAME	HUSSLINE PARTS INC		
STREET	48 SEWELL STREET			STREET			
CITY	HEMPSTEAD	CO	NASSAU	CITY			
CONTACT				CONTACT			
PHONE		EXT		PHONE		EXT	

SPILL CAUSE SPILL SOURCE
RESOURCE AFFECTED REPORTED BY

WATERBODY

CALLER REMARKS

MULTIPLE CHEMICALS, PLANT CAUGHT ON FIRE, FD ON SCENE, PLATING PLANT

PSS Number

TANK SUBFORM

Cleanup Completed Meets 94's Last Inspection Penalty
RP-CUR ENV-INT INVS-COM CAP
UST Tank Eligible CLASS Close Date
CREATED ON LAST UPDATED ON

◆ Impact Environmental Consulting, Inc.
One Village Plaza, Kings Park, New York 1175

NYSDEC Spill Logs

DEC REMARKS

09/27/95: SPILL BEING HANDLED BY DHWR.[]

IMPACT NOTES

DEC REGION #

1

SPILL NUMBER

9603331

SPILL NAME

NUBYS FUEL OIL

DEC LEAD

RKS WELL

CALLER NAME

NOTIFIER'S NAME

CALLER AGENCY

NOTIFIER'S AGENCY

CALLER PHONE

EXT

NOTIFIER'S PHONE

EXT

SPILL DATE

6/10/96

SPILL TIME

14:00

RECEIVED DATE

6/10/96

RECEIVED TIME

14:36

MATERIAL

#2 FUEL OIL

CLASS TYPE

Petroleum

QTY SPILLED

0

UNSPILLED

-1

UNRS

G

QTY RECOVERED

0

UNRECOVERED

-1

NAME

NUBYS FUEL OIL

NAME

NUBYS FUEL OIL

STREET

57 POLK AVENUE

STREET

34 RUSTIC GATE

CITY

HEMPSTEAD

CO

Nassau

CITY

DIX HILLS

CONTACT

CALLER

CONTACT

GENE NEUBURGER

PHONE

(516) 667-2070

EXT

PHONE

(516) 667-2070

EXT

SPILL CAUSE

Tank Failure

SPILL SOURCE

Major Facility > 400,000 gal

♦ Impact Environmental Consulting, Inc.
One Village Plaza, Kings Park, New York 1175

NYSDEC Spill Logs

RESOURCE AFFECTED

On Land

REPORTED BY

Other

WATERBODY

CALLER REMARKS

removing tanks from an old fuel depot and found contaminated soil. soil is being excavated now.

PBS Number

TANK SUBFORM

Cleanup Consent

Meets Std

TRUE

Last Inspection

Penalty

TRUE

RF-CUM

ENV-INT

INVS-COM

CAP

UST Treat Eligible

CLASS

B3

Close Date

11/20/98

TRUE

CREATED ON

6/10/96

LAST UPDATED ON

11/23/98

DEC REMARKS

2 A/G TANKS WERE REMOVED LAST WEEK & NO CONTAMINATION WAS FOUND
INACTIVE

IMPACT NOTES

NYSDEC Spill Logs

DEC REGION # SPILL NUMBER
 SPILL NAME DEC LEAD
 CALLER NAME NOTIFIER'S NAME
 CALLER AGENCY NOTIFIER'S AGENCY
 CALLER PHONE EXT NOTIFIER'S PHONE EXT

SPILL DATE

SPILL TIME

RECEIVED DATE

RECEIVED TIME

MATERIAL CLASS TYPE
 QTY SPILLED UNSPILLED UNITS
 QTY RECOVERED UNRECOVERED

NAME <input type="text" value="KAPCO"/>		NAME <input type="text" value="KAPCO"/>	
STREET <input type="text" value="44 MADISON AVENUE"/>		STREET <input type="text"/>	
CITY <input type="text" value="HEMPSTEAD"/>	CO <input type="text" value="Nassau"/>	CITY <input type="text"/>	STATE <input type="text"/>
CONTACT <input type="text"/>		CONTACT <input type="text"/>	
PHONE <input type="text"/>	EXT <input type="text"/>	PHONE <input type="text"/>	EXT <input type="text"/>

SPILL CAUSE SPILL SOURCE
 RESOURCE AFFECTED REPORTED BY

WATERBODY

CALLER REMARKS

FBS Number

TANK SUBFORM

♦ Impact Environmental Consulting, Inc.
 One Village Plaza, Kings Park, New York 1175

NYSDEC Spill Logs

Cleanup Ceased Meets SE's Last Inspection Penalty
RP-CUM INF-INT INVS-COM CAP
UST Trust Rights CLASS Close Date
CREATED ON LAST UPDATED ON

DEC REMARKS

IMPACT NOTES



Impact Environmental

advisors in environmental consulting inc.

1 VILLAGE PLAZA
KINGS PARK, NEW YORK 11754
516.269.8800 TELEPHONE
516.269.1599 FACSIMILE

GEOLOGIC AND HYDROGEOLOGIC DATA REVIEW

USGS Topographic Map

Map Identification: Lynbrook, New York
Map Base Date: 1954
Map Revision Dates: Field Checked 1969

Approx. Subject Property Elevation: 40'
General Topographic Gradient At Subject Property: Northeast

Groundwater Information

Approx. Groundwater Table Elevation At Subject
Property Above Mean Sea Level: 30'
Estimated Depth To Groundwater Below Grade: 10'
General Groundwater Gradient At Subject Property: Southwest
County Designated Water Management Zone:

Hydrogeologic Zone I, The Deep Flow System
- Magothy Recharge Area

Soil Survey Review

General Soil Association For Subject Property: Urban Land - Riverhead Association
Detailed Soil Classification For Subject Property: Urban Land (UrA)

Local Radon Concentrations

Number of Sites Tested in County: 356
Average Activity: 1.6 pCi/L
% <4 pCi/L: 94%
% 4-20 pCi/L: 6%
% >20 pCi/L: 0%



Impact Environmental

❖ *achieving environmental excellence*

1 VILLAGE PLAZA
KINGS PARK, NEW YORK 11754
516.269.8800 TELEPHONE
516.269.1599 FACSIMILE

GOVERNMENT RECORDS INVENTORY TRACKING DATA

The purpose of this document is to ensure that the following databases are maintained and updated on a regular schedule to ensure accuracy of information. Dates that the data was acquired from the respective regulatory agencies and dates the information was incorporated into Impact Environmental Consulting, Inc.'s databases are provided.

FEDERAL RECORDS:

USEPA NATIONAL PRIORITY LIST

Date acquired from USEPA: 09-19-00

Date data was added to search parameters: 09-19-00

USEPA CERCLIS

Date acquired from USEPA: 08-12-00

Date data was added to search parameters: 08-12-00

USEPA ERNS

Date acquired from USEPA: 08-31-00

Date data was added to search parameters: 08-31-00

USEPA RCRA GENERATORS

Date acquired from USEPA: 08-31-00

Date data was added to search parameters: 08-31-00

USEPA RCRA TSD FACILITIES

Date acquired from USEPA: 08-31-00

Date data was added to search parameters: 08-31-00

STATE RECORDS:

NYSDEC INACTIVE HAZARDOUS WASTE DISPOSAL SITES

Date acquired from NYSDEC: 04-01-00

Date data was added to search parameters: 04-01-00

NYSDEC HSDSS

Date acquired from NYSDEC: 06-13-95 (one time publication)

Date data was added to search parameters: 09-25-00 (addendum)

NYSDEC SOLID WASTE FACILITY DATABASE

Date acquired from NYSDEC: 09-25-00

Date data was added to search parameters: 09-25-00

NYSDEC SPDES

Date acquired from NYSDEC: 09-21-00

Date data was added to search parameters: 09-21-00

NYSDEC CBS

Date acquired from NYSDEC: 07-01-00

Date data was added to search parameters: 07-01-00

NYSDEC PBS

Date acquired from NYSDEC: 07-01-00

Date data was added to search parameters: 07-01-00

NYSDEC MOSF

Date acquired from NYSDEC: 07-01-00

Date data was added to search parameters: 07-01-00

NYSDEC SPILL LOGS

Date acquired from NYSDEC: 07-01-00

Date data was added to search parameters: 07-01-00

COUNTY RECORDS:**Nassau County Health Department Toxic and Hazardous Materials Registry**

Date acquired from NCHD: 06-18-00

Date data was added to search parameters: 06-18-00

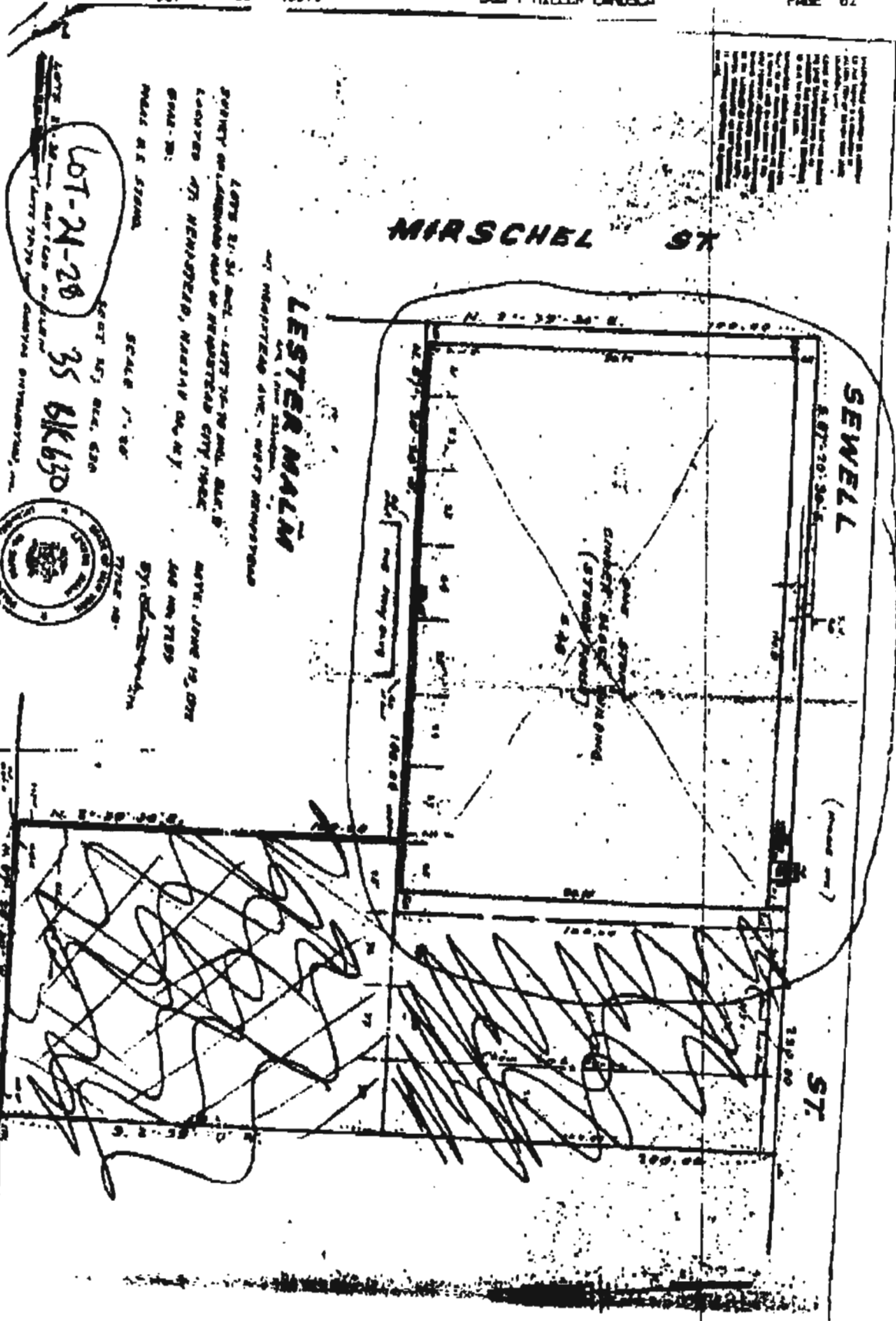
Suffolk County Department of Health Services Toxic and Hazardous Materials Registry

Date acquired from SCDHS: 06-02-00

Date data was added to search parameters: 06-02-00

KOSURI ENGINEERING & CONSULTING, P.C.
Environmental Site Assessment

Appendix F
Miscellaneous



Handwritten: Hempstead

Restone Bumper
Scott Miller: 984-4625 (516)

PRESIDEA

MADISON

AV

4 25

SEWELL

WASH DOWN

MIRSCHER

BUS GARAGE &
REP. SHOP
GEN. HL.
ELECT. & MECH.
WASH. & PAINTING
SPECIALTY

COMPUTER
INSTRUMENT
MFG.

MACH. SHOP

PENINSULA

21

TYLER AV

588

80'

425

11



PRESIDENT

SEWELL

MADISON

CHASNER

COMPUTER
INSTRUMENT
MFG

POLK

ASHDOWN

HARRISON

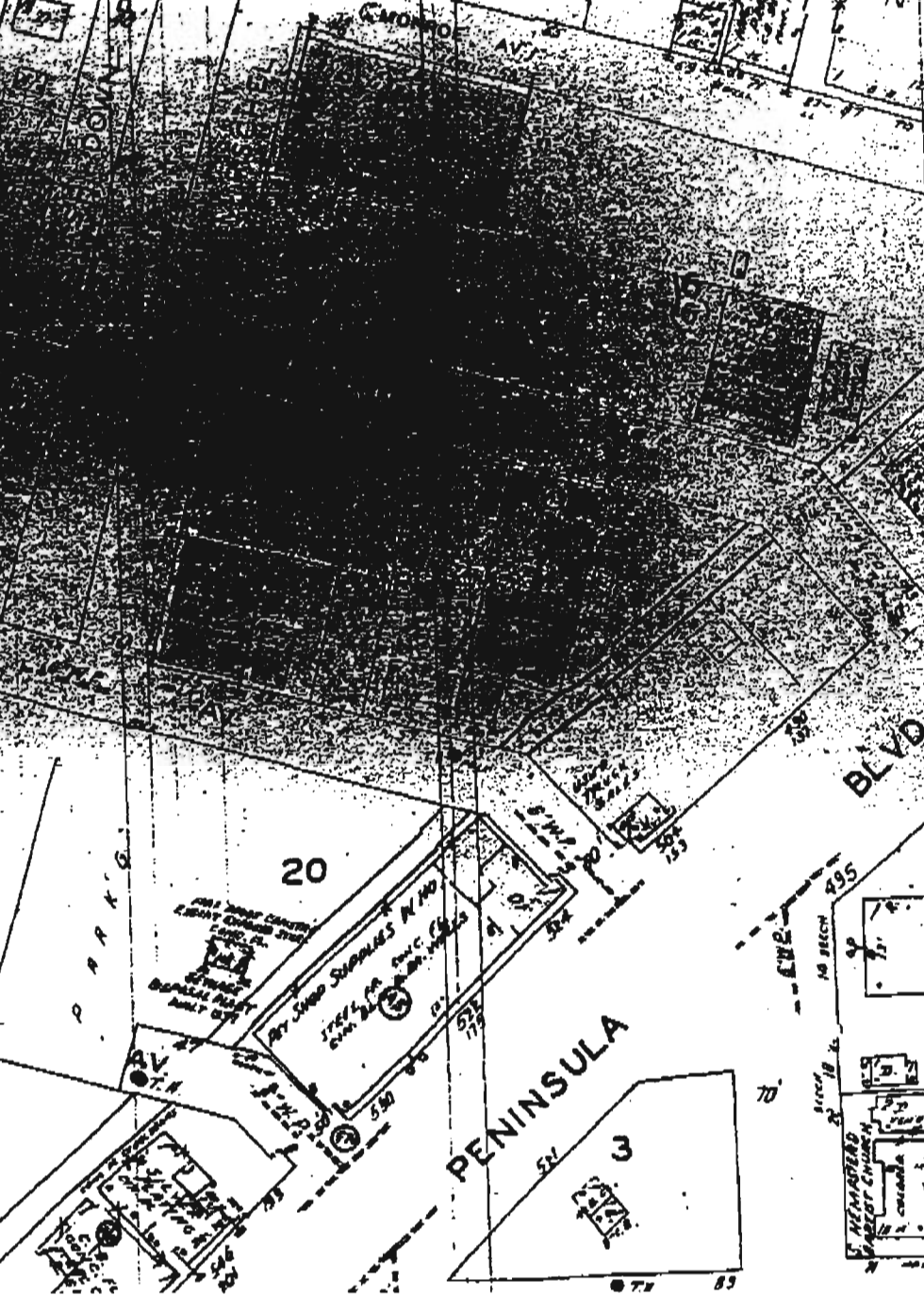
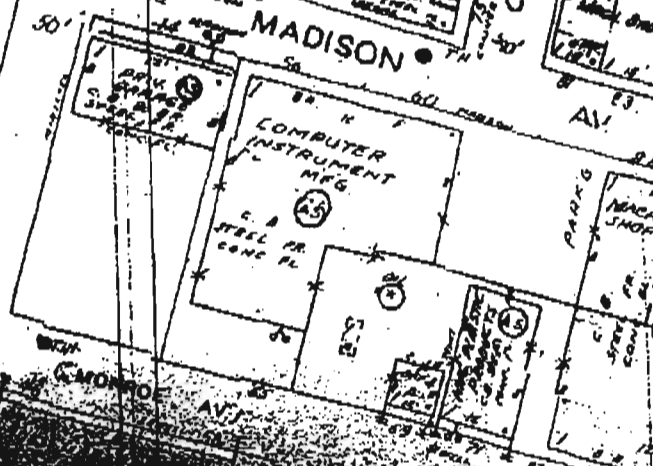
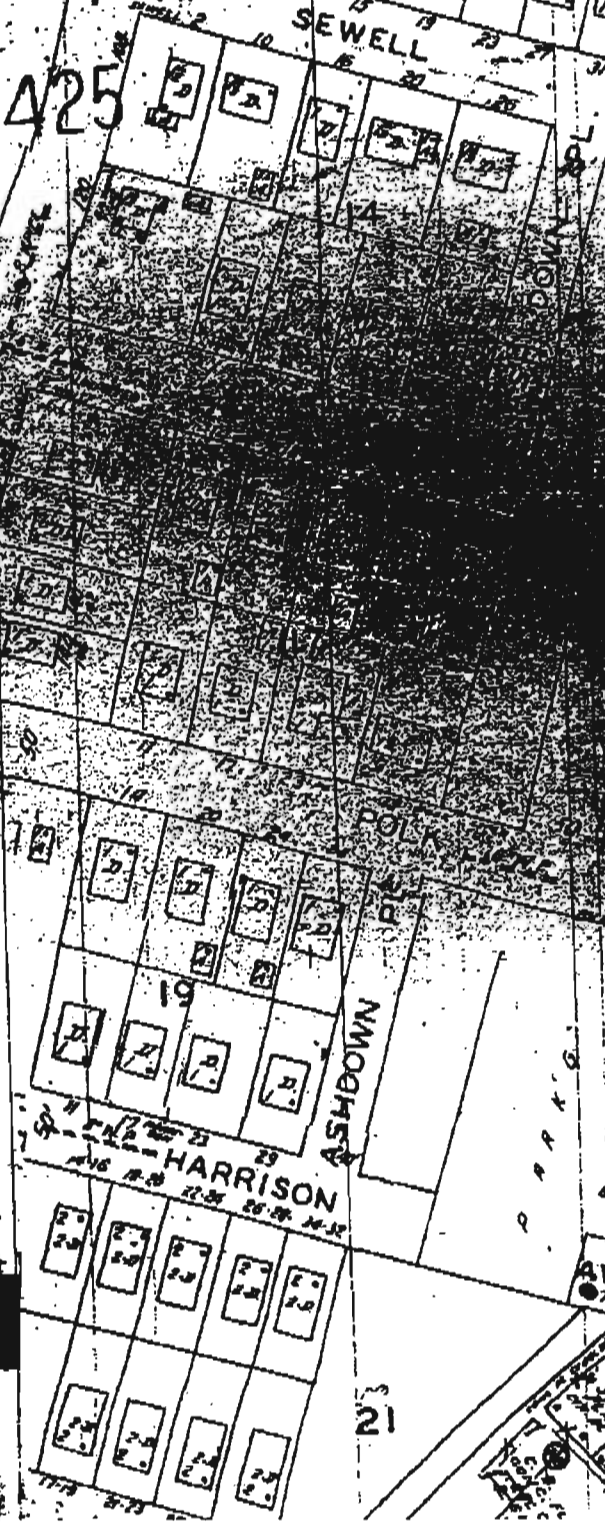
20

BLVD

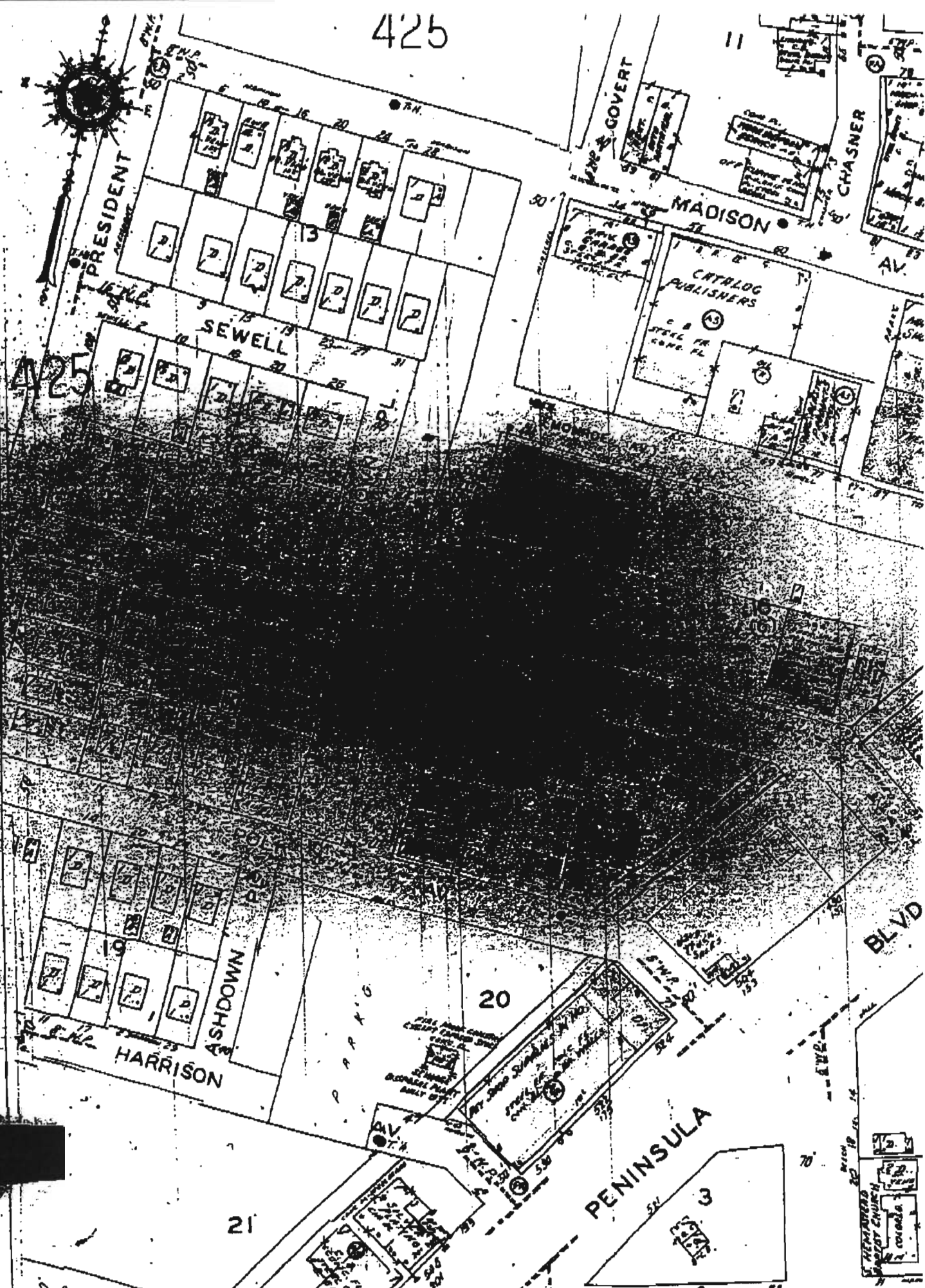
PENINSULA

3

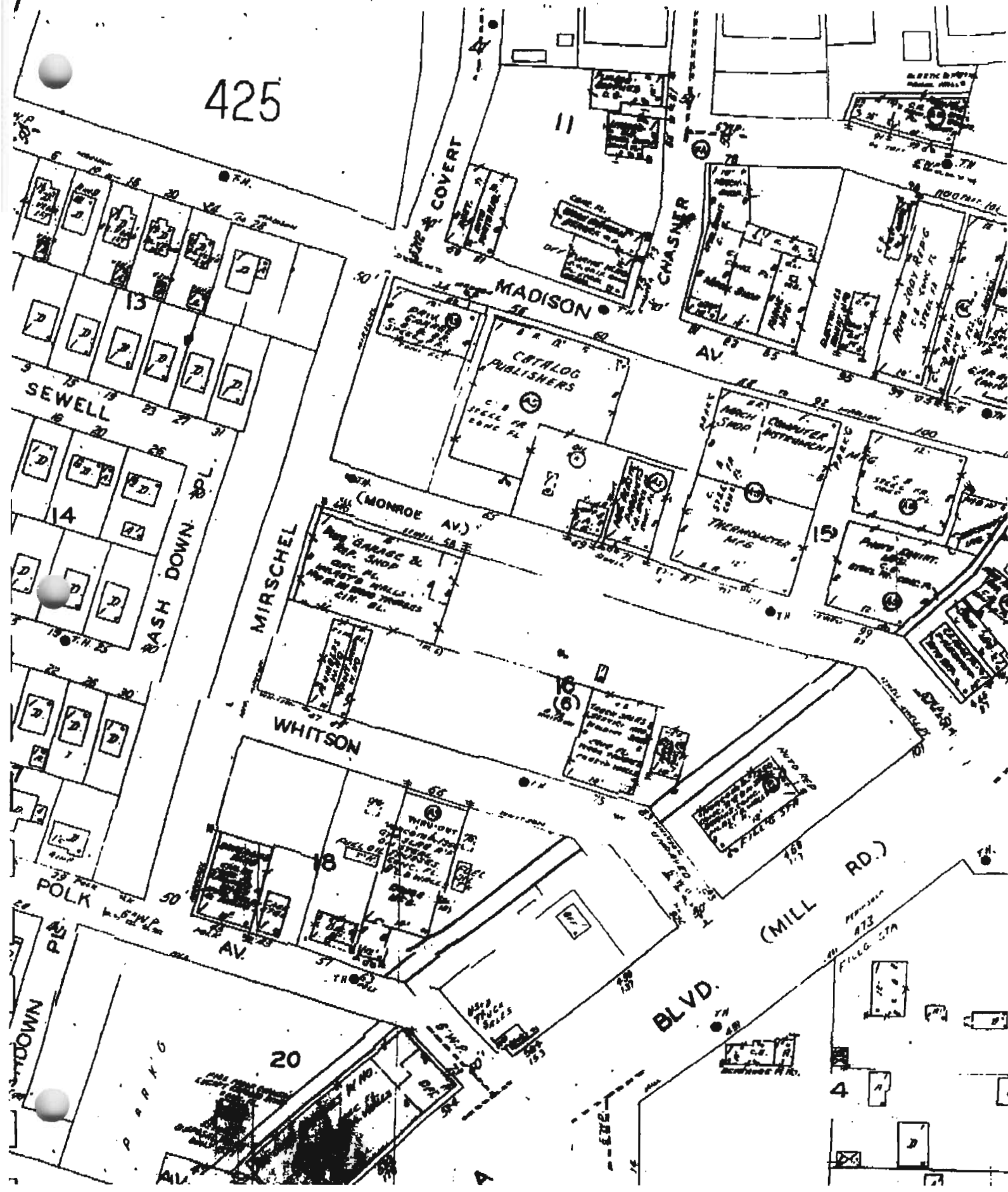
425



425



425



This is a detailed street map of a neighborhood in Jackson, Mississippi. The map shows several streets: Madison Av. on the left, Sewell (Monroe Av.) running vertically, Whitson (Jackson Av.) running vertically, and Polk on the right. A horizontal street at the top is labeled 'RD. MILL'. A large area in the center is labeled '6' and '8'. A compass rose is located in the bottom left corner. A handwritten '1950' is in the top right corner. The map includes various property lots, buildings, and a compass rose. A handwritten '1950' is in the top right corner. The map includes various property lots, buildings, and a compass rose. A handwritten '1950' is in the top right corner.

MAPS 1/4 INCH
TO AN INCH

425

COVERT

MADISON AV.

MONROE AV.

JACKSON AV.



PRESIDENT

1930

UNPAVED

UNPAVED

UNPAVED

1925 4

CONVERT

AK

425

6

WATER MILL RD



The EDR-City Directory
Abstract

**46-58 Evens Sewell St
46-58 Evens Sewell St
Hempstead, NY 11550**

October 10, 2000

Inquiry Number: 546937-3

**The Source
For Environmental
Risk Management
Data**

**3530 Post Road
Southport, Connecticut 06490**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802**

Environmental Data Resources, Inc.

City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources*. *Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-00, Section 7.3.4, page 12.)

EDR's City Directory Abstract includes a search and abstract of available city directory data.

City Directories

City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1527-00 specifies that a *"review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice."* (ASTM E 1527-00, Section 7.3.4, page 12.)

Please call EDR Nationwide Customer Service at
1-800-352-0050 (8am-8pm EST)
with questions or comments about your report.
Thank you for your business!

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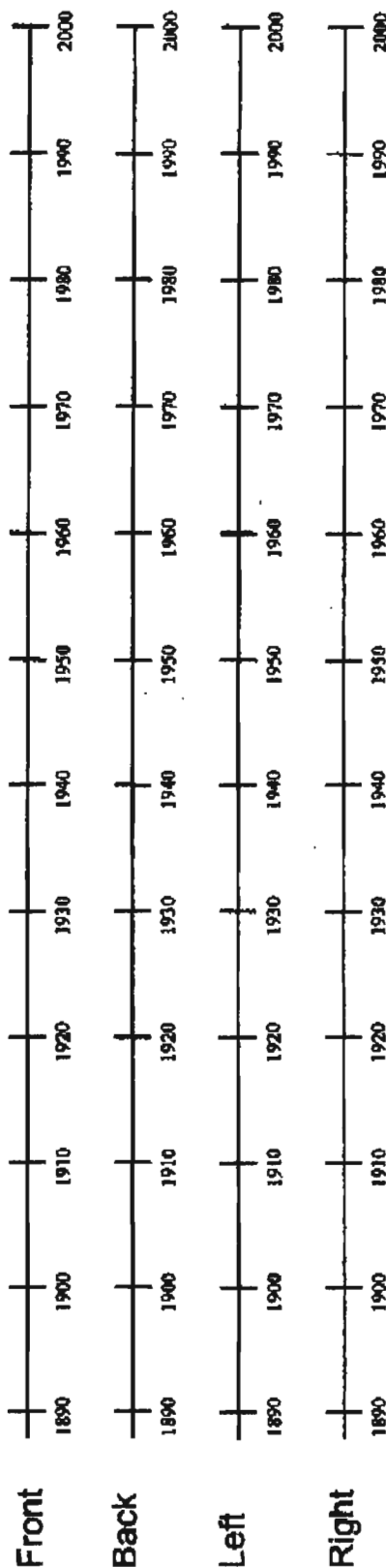
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Prior Use Report™ Timeline



Adjoining Property



Legend:

= Historical Topographic Map (HT) *

= National Wetland Inventory Map (WT) *

Superscript number corresponds to graph ID in text

*Displayed on timeline when aerial photos, National topog, flood prone, FEMA, wetland maps, or Aerial Research Summary are purchased.

= Flood Prone/FEMA Maps (FP/FPR) *

= Aerial Photos Included (P) *

= Aerial Photos Available *

= Residential (R)

= Commercial or Industrial (C)

Target Property: 46-58 Evens Sewell St
Address: 46-58 Evens Sewell St
City/State/Zip: Hempstead, NY 11550

Customer: Impact Environmental
Contact: Creg Harris
Inquiry #: 546937-3
Data: 10/10/00

4. SUMMARY

- *City Directories:*

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1972 through 2001. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources:
City Directories October 10, 2000

Target Property:
46-58 Evens Sewell St
Hempstead, NY 11550

<u>PUR ID</u> <u>Year</u>	<u>Uses</u>	<u>Portion-Findings</u> <u>(FIM Information Only)</u>	<u>Source</u>
1 1972	Address not Listed in Research Source		Cole Cross Directory
1 1975	address not listed in research source (46) Hunslein Plating (48) address not listed in research source (50-58)	N/A	Cole's Cross Directory
2 1980	address not listed in research source (46) Hunslein Plating (48) address not listed in research source (50-58)	N/A	Cole's Cross Directory
3 1985	address not listed in research source (46) Hunslein Plating (48) address not listed in research source (50-58)	N/A	Cole's Cross Directory
1990	Address not Listed in Research Source		Cole Cross Directory
1996	Address not Listed in Research Source		Cole Cross Directory
2001	Address not Listed in Research Source		Cole Cross Directory

Glossary of Terms

A.A.A.

Aerial photograph flyer: Agriculture Adjustment Administration (Federal).

A.S.C.S

Aerial photograph flyer: Agricultural Stabilization and Conservation Service (Federal)

Address Change

Indicates that a change of address has occurred; indicates new address. A change of address may occur when a city, street, or the address ranges of a street are restructured.

Address in Research Source

Indicates that a property is listed at a different address than the one provided by the user. Generally occurs when a property is located on a corner or, when the physical address of a property is different than its mailing address.

Address Not Listed in Research Source

Occurs when a specific site address is not listed in city directories and/or fire insurance maps.

Adjoining

Any property that is contiguous, or a property that would be contiguous if not for a public thoroughfare, to the target property. *To differentiate from each adjoining property, stand at the target property's "front door" facing the street.*

Adjoining Back

Property directly to the rear of the target property.

Adjoining Front

Property directly in front of the target property.

Adjoining Left

Property directly to the left of the target property.

Adjoining Right

Property directly to the right of the target property.

Adjoining Surrounding Area

Property that may adjoin the target property but due to lack of specific map information cannot be located precisely. This situation typically occurs when city directory information, but not fire insurance map information, is available.

C.A.S

Aerial photograph flyer: Chicago Aerial Survey (private).

C.S.S.

Aerial photograph flyer: Commodity Stabilization Service (Federal).

Cartwright

Aerial photograph flyer: Cartwright (private)

CD

City Directory

Commercial

Any property including, but not limited to, property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units.

Commercial or Industrial

Property that has either a commercial or an industrial use. Examples include retail stores, manufacturing facilities, factories, and apartment buildings.

D.N.R.

Aerial photograph flyer: Department of National Resources (state).

D.O.T.

Aerial photograph flyer: Department of Transportation (state).

Fairchild

Aerial photograph flyer: Fairchild (private).

FIM

Fire Insurance Map

Flood Insurance Rate Maps

Flood Insurance Rate Maps are produced by the Federal Emergency Management Agency (FEMA). These maps indicate special flood hazard areas, base flood elevations and flood insurance risk zones.

Flood Prone Area Maps

Flood Prone Area maps are produced by the United States Geological Survey (USGS). Areas identified as flood prone have been determined by available information gathered from past floods.

F.S.

Aerial photograph flyer: Forest Service (Federal).

Geonex

Aerial photograph flyer: Geonex (private).

M.C.

Aerial photograph flyer: Metropolitan Council of the Twin Cities Area (state).

Map Required Not Available in Local Collection

Property is located on a fire insurance map sheet not available in local and/or microfilm collection.

Mark Hurd

Aerial photograph flyer: Mark Hurd (private)

Multiple Locations

Indicates that there are two or more sites adjoining the target property's border.

N.A.P.P.

Aerial photograph flyer: National Aerial Photography Program (Federal).

National Wetland Inventory Maps

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a division of the U.S. Department of the Interior. Wetland and deepwater habitat information is identified on a 7.5 minute U.S.G.S. topographic map. The classification system used categorizes these habitats into five systems: marine, estuarine, riverine, lacustrine and palustrine.

No Return

Indicates that site owner was unavailable at time of surveyor's contact. *Applies only to city directories.*

No Structure Identified on Parcel

Used when site boundaries and/or site address is indicated on a fire insurance map; no structure details exist.

Other

Occurs when the site's classification is different than EDR's standard categories. Examples may include undeveloped land and buildings with no specified function.

P.M.A.

Aerial photograph flyer: Production and Marketing Administration (Federal).

Pacific Aerial

Aerial photograph flyer: Pacific Aerial (private)

Portion

Refers to the fire insurance map information identified on the four quadrants of a target or adjoining property. The portions are referred to as *Frontright*, *Frontleft*, *Backright*, and *Backleft* and are determined as if one were standing at the front door, facing the street.

Property Not Defined

Used when property is not clearly demarcated on a fire insurance map.

Residential

Any property having fewer than five dwelling units used exclusively for residential purposes.

Residential with Commercial Uses (a.k.a. Multiple Purpose Address)

A business (firm) and residence at the same address. Examples include a doctor, attorney, etc. working out of his/her home.

Sidwell

Aerial photograph flyer: Sidwell (private).

Site Not Mapped

Occurs when an adjoining property has not been mapped by fire insurance map surveyors.

Teledyne

Aerial photograph flyer: Teledyne (private)

Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS). These maps are color coded line and symbol representations of natural and selected artificial features plotted to scale.

Turnbow

Aerial photograph flyer: Michael Turnbow (private)

U.S.D.A.

Aerial photograph flyer: United States Department of Agriculture (Federal).

U.S.D.I.

Aerial photograph flyer: United States Department of the Interior (Federal).

U.S.G.S.

Aerial photograph flyer: United States Geological Survey (Federal).

Vacant

May refer to an unoccupied structure or land. *Used only when fire insurance map or city directory specifies 'vacant.'*

W.P.A.

Aerial photograph flyer: Works Progress Administration (Federal).

WALLACE

Aerial photograph flyer: Wallace (private).

Phase II Environmental Site Assessment

Limited Subsurface Investigation

April 9, 2001

00-408A

conducted at:

48 Sewell Street

Hempstead, New York

Nassau County Tax Map Designation: Section 35; Block 630; Lots 21-28

prepared for:

Scott Miller Landscape Maintenance, Inc.

69 Woodcock Road

Westbury, NY

report user:

Scott Miller Landscape Maintenance, Inc.

69 Woodcock Road

Westbury, NY

KOSURI ENGINEERING & CONSULTING, P.C.

31 KNOLLS DRIVE, NEW HYDE PARK, NY 11040-1110

TELEPHONE (516) 365-7400 FAX (516) 365-2029

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APPENDICES

- Appendix A:** Laboratory Report, Long Island Analytical Laboratories, Inc.
Appendix B: Photo Log, *Hempstead, New York*

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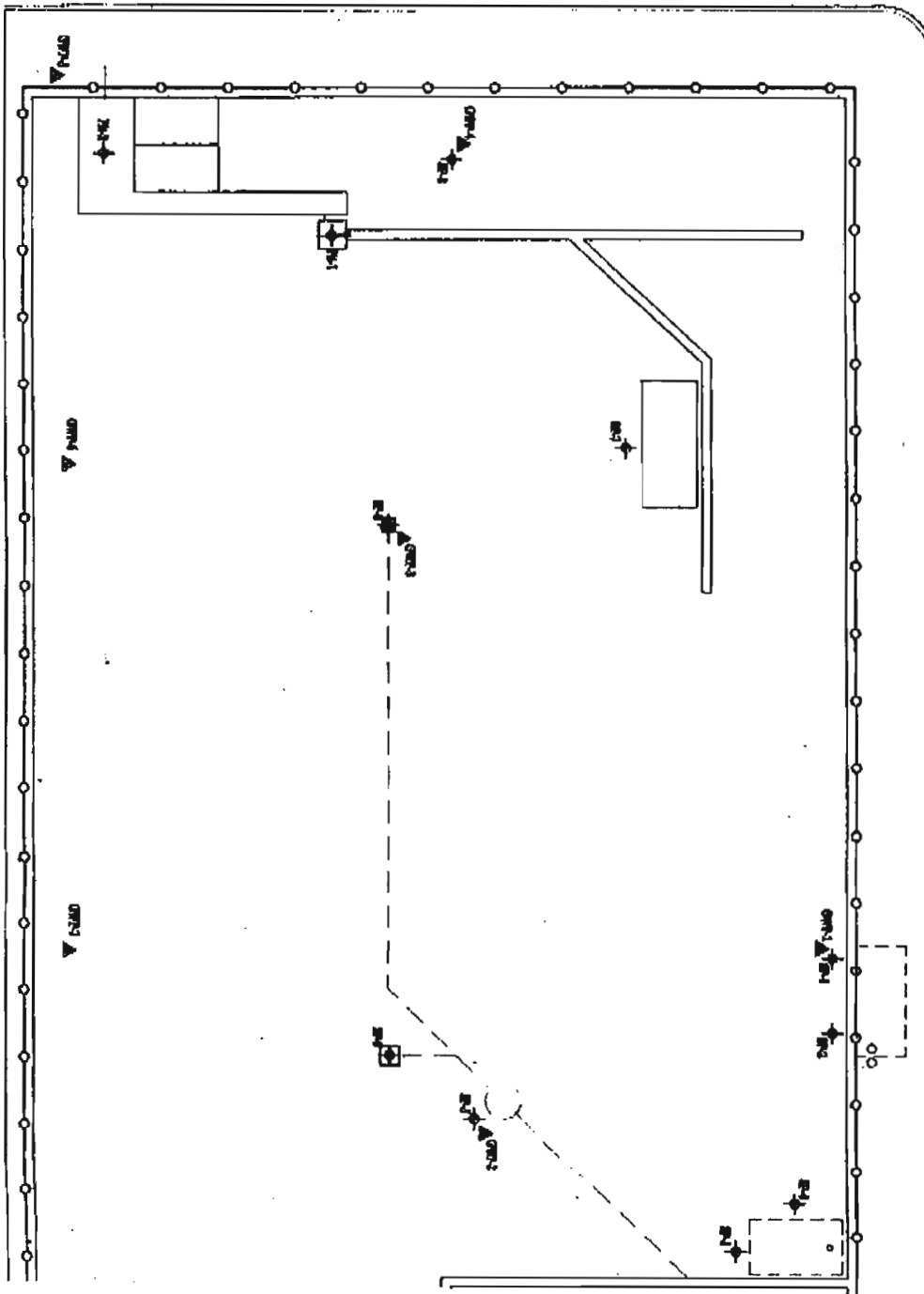
<i>Report Holder</i>	<i>Number of Reports Issued</i>
Scott Miller Landscape Maintenance, Inc.	2
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Impact Environmental Corporate Records	1

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Mirschel Street

Sewell Street



1.0 Purpose & Scope

This Phase II Environmental Site Assessment (ESA) was conducted to define what, if any, contaminants have impacted the environmental quality of the property located at 48 Sewell Street, Hempstead, New York, herein identified as the subject property. The scope of this investigation was based on recommendations presented in the Phase I ESA report prepared by Kosuri Engineering & Consulting, P.C., dated October 16, 2000. Said assessment identified issues requiring supplemental data to further define the environmental quality of the subject property.

The investigative protocols used for this assessment were based upon the following documents: 1) the New York State Department of Environmental Conservation Spill Technology and Remediation Series (STARS) Memo #1, Petroleum Contaminated Soil Guidance Policy; 2) the New York State Department of Environmental Conservation, Spill Prevention Operation Technology Series (SPOTS) Memo #14, Tank Assessment Procedures; 3) the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) #4046 Determination of Soil Cleanup Objectives; 4) the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) #4015 Policy Regarding Alteration of Groundwater Samples Collected for Metals Analysis; and 5) the New York State Department of Environmental Conservation, Technical Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Limitations. The activities performed under the scope of this investigation have been summarized in this report in the following sections.

- ◆ **Site Description**
- ◆ **Survey, Sampling and Analysis Plan**
- ◆ **Quality Assurance and Control Procedures (QA/QC)**
- ◆ **Laboratory Analysis**
- ◆ **Evaluation of Results**
- ◆ **Conclusions**

Presented herein are the results of the Phase II Environmental Site Assessment conducted by Kosuri Engineering & Consulting, P.C. on the subject property [see Plate 1: Project Location Map, Hempstead, New York].



late 1: Project Location Map, Hempstead, NY.

2.0 Site Description

All of the information presented in this section of the report was compiled during the performance of the Phase I ESA.

2.1 Topography

The areal extent of the subject property was approximately 16,000 square feet. The surface area of the subject property consisted of a concrete slab (floor of a former building) that included trenching, two drain and a holding pit. In general, the subject property exhibited low topographic relief (less than three percent slopes).

2.2 Land Use

The subject property was developed in 1945 to be utilized as a bus garage and office. The building was to be connected with the municipal sewer system at the time of construction. The building was subsequently renovated in 1973 to operate as an electroplating facility. The electroplating facility was operational for approximately twenty-six years. The electroplating facility maintained numerous above ground holding tanks (vats) and drums for storage of plating chemicals. Three fires were reported to have occurred on the subject property. The second fire, which occurred in 1995, resulted in significant damage the electroplating equipment. The third fire, which occurred in 1999, resulted in extensive damage the building. Consequently, the building was subsequently demolished.

2.3 Recognized Environmental Conditions

The investigative activities performed under the scope of this Phase II ESA were based upon the following issues identified as *recognized environmental conditions*.

- The Phase I ESA identified that two underground storage tanks (USTs) were formerly maintained on the subject property. There were no records concerning the proper abandonment of any former USTs on the subject property. This absence of records represents a *recognized environmental condition*. Accordingly, it was recommended that a remote sensing survey be performed to determine if said USTs were present on the subject property, and that a limited subsurface investigation be conducted to determine if the former operation and maintenance of the USTs actuated a release of product to the subsurface soil and/or groundwater of the subject property.

- The Phase I ESA identified that a bus garage and an electroplating facility formerly operated on the subject property. These industrial land use applications have created the potential for the subject property to have been impacted by organic and inorganic contaminants. This potential represents a *recognized environmental condition*. Accordingly, it was recommended that a limited subsurface investigation be performed to determine if these former industrial land uses have impacted the environmental quality of the property. This recommendation is further supported by the reported release of electroplating (nickel and chromium solutions) chemicals resulting from the fires that occurred on the subject property.

3.0 Survey, Sampling and Analysis Plan

A survey, sampling and analysis program was developed to address the recognized environmental conditions identified in the Phase I ESA. The plan included: 1) a remote sensing survey to identify any on-site USTs or any subsurface structures associated with former electroplating operations; 2) an investigation to determine what, if any, contaminants were released to the subsurface soil and/or groundwater of the subject property as a result of former on-site operations. The following work was performed to satisfy the survey, sampling and analysis plan. All structures and sampling locations can be referenced with **Plate 2: Sample Acquisition Plan, Hempstead, New York**.

3.1 Remote Sensing Survey

A survey plan was designed to identify the presence of any subsurface structures associated with former on-site operations that represented mechanisms for the release of contaminants on the subject property. Such structures included underground storage tanks (USTs), underground wastewater injection wells (UWIs), and subsurface piping. The remote sensing survey was performed utilizing a GSSI ground penetrating radar (GPR) and a void detection instrument. The remote sensing survey was performed over the planimetric surface of the subject property on a coordinate grid system. An analysis of the data collected from the remote sensing survey revealed the following.

- Two subsurface anomalies consistent with USTs. These anomalies were suspected to represent the abandoned fuel oil and gasoline USTs.
- Subsurface piping interconnecting two floor drains via separator to the main sewer trap.
- Subsurface piping exiting the holding pit.
- The remote sensing survey failed to identify the presence of any wastewater UWIs.

3.11 Remote Sensing Survey Procedures

The instruments used to survey the subject property were a Geophysical Survey Systems, Inc. (GSSI) SIR[®] (Subsurface Interface Radar) System-2 and a Whites TM 808 locator instrument. A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 50 KHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the subsurface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit represented as color graphic images for interpolation. The SIR[®] System-2 is capable of transmitting electromagnetic energy in the frequency range of 16MHz to 2000MHz.

The Whites TM 808 locator instrument is commonly used to discriminate between target types, such as in confirming void spaces or a detecting a change in the subsurface material. The instrument can also be used to detect large metal objects, such as steel underground storage tanks. The Whites TM 808 consists of a front and rear loop antenna and control box. The control box emits a signal into the ground utilizing transmit and receive electronics. When in cave mode, the control box senses mineralization changes in the subsurface. Where a void space is encountered, the unit will sense a decrease in mineralization, therefore emitting a positive signal. Similarly, when the instrument is set in metal mode, a positive signal will be emitted when a metal object is encountered. The strength of the positive signal is interpreted audibly and as a percentage of strength from calibration. The Whites TM 808 generally detects large objects at a depth of four to twenty feet.

A qualified technician from Kosuri Engineering & Consulting, P.C. specified a coordinate system on the planimetric surface of the site to map any subsurface dielectric anomalies detected on the premises. The property was then surveyed by scanning the planimetric surface with the Whites TM 808 instrument and hand-towing a 400 MHz GPR antenna in a rough five-foot grid pattern. The operator used knowledge of the subsurface soil composition to calibrate the SIR[®] System-2 to site specific conditions. Factor settings such as range, gain, number of gain points, and scans per unit, were modified to yield the most accurate data to describe the subsurface conditions.

Upon finding a dielectric anomaly, a more spatially specific coordinate system was designed over the area to determine its size, shape and orientation. The data collected during the survey was reviewed by the operator and compared against past experience, technical judgment and prior site knowledge to classify the anomalies.

3.2 Subsurface Soil Sampling

Eleven (11) soil probe nodes, identified as SP-1 through SP-9, Pit-1 and Pit-2, were sited by Kosuri Engineering at strategic locations on the subject property corresponding to the remote sensing survey and information provided in the Phase I ESA. Subsurface soil samples were secured from said probe nodes at depth intervals ranging from grade to fourteen (14) feet below existing grade (BEG). These samples were secured to provide data that would determine if former on-site operations had impacted the environmental quality of the subject property. The following presents a summary of subsurface soil sampling locations on the subject property.

Probe nodes SP-1 and SP-2 were sited adjacent to the UST (suspected gasoline UST) as identified by the remote sensing survey on the northeastern portion of the subject property. Probe nodes SP-3 and SP-4 were sited adjacent to the UST (suspected fuel oil UST) as identified by the remote sensing survey on the northeastern portion of the subject property.

Probe node SP-5 was sited adjacent to the separator tank as identified by the remote sensing survey on the eastern portion of the subject property.

Probe node SP-6 was sited within the confines of the floor drain identified at grade on the western portion of the subject property. Although the remote sensing survey confirmed that the drain was connected to the municipal sewer, the structural integrity of this drain and associated piping could not be confirmed, therefore, this area was subjected to sampling activities as part of this investigation.

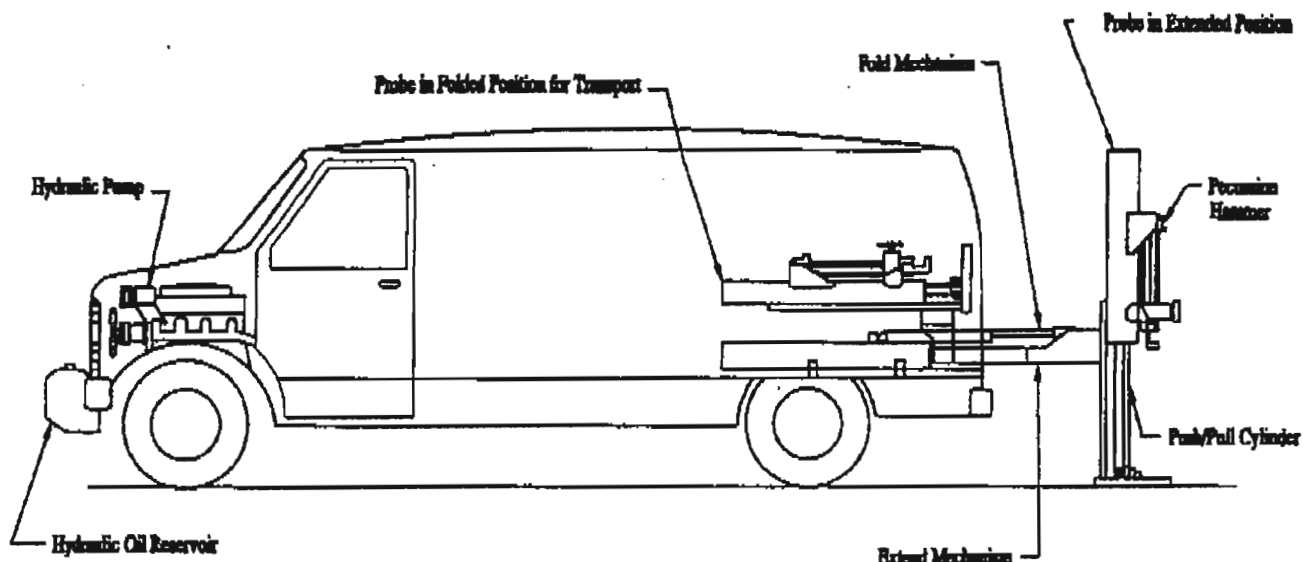
Probe node SP-7 was sited adjacent to a former structure that supported two above ground chemical (nickel solution) holding tanks.

Probe node SP-8 was sited in the vicinity of the chemical release area (former bay doors) as identified in the Phase I ESA.

Probe nodes Pit-1 and Pit-2 were sited within the base of two holding pits. Coring activities were performed at each probe node location to access the subsurface. Although the remote sensing survey and visual observation confirmed that the holding pits were connected to the municipal sewer, the structural integrity of these holding pits and associated piping could not be confirmed, therefore, this area was subjected to sampling activities as part of this investigation.

3.2.1 Subsurface Probe Installation

Subsurface probes were installed using a *Geoprobe* hydraulically powered probing tool (see **Diagram 1: Geoprobe Operating System**). Mechanized, vehicle mounted probe systems apply both static force and hydraulically powered percussion hammers for tool placement (static down forces up to 3,000 pounds combined with percussion hammers of eight horsepower continuous output). Recovery of large sample volumes was facilitated with a probe-driven sampler. The probe-driven sampler consisted of a hollow probe which opened via a remote control mechanism at the selected sampling depth in the soil profile to allow soil to enter as it was advanced. Discrete media samples were secured at the desired depths and were contained within a non-reactive transparent plastic sleeve that lined the hollow probe. The plastic sleeves were removed for subsequent inspection and sample aliquot acquisition.



Basics

- ◆ Hydraulic powered probe unit incorporated from a engine driven pump.
- ◆ Remote vehicle ignition allows operator to start engine from probe unit.
- ◆ Belt driven hydraulic pump supplies 10 gpm @ 2000 rpm, 3000 psi operating pressure
- ◆ Probe unit folds for transport
- ◆ Unit utilizes static weight of vehicle and percussion hammer to advance probing tools.
- ◆ Hydraulic hammer delivers percussion rate of 30 Hz.
- ◆ Probes have greater than 18,000 lbs of down force and 25,000 lbs of retraction force.
- ◆ Drives multiple diameter probes (1", 1.25" and 2.25") to depths over 100 feet.

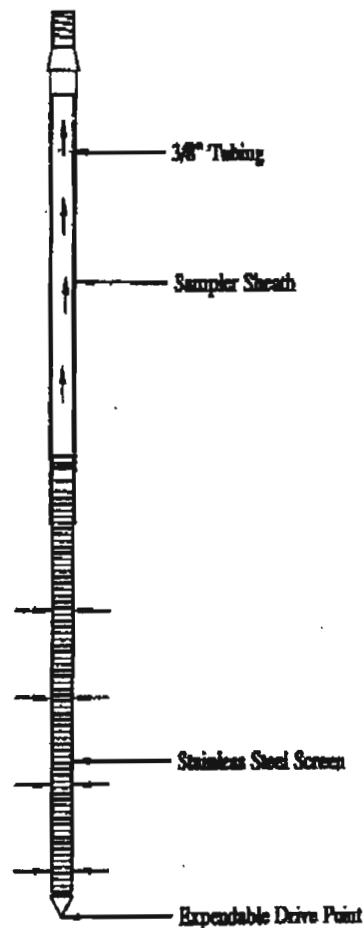
Soil Probing Tool

The tools are advanced and a sample is acquired in a non-reactive plastic sheathing. The system offers two sizes of sample retrieval:

- Large bore - 1.5" x 2'
- Macro - 2.25" x (2', 3' & 4')



- ▲ **Groundwater SP-15 Sampler**
The tool allows a stainless steel, 4' screen to be delivered to the underlying groundwater. As the desired depth, the screen is retracted and samples are obtained via a check valve assembly.



IMPACT ENVIRONMENTAL

◆ a division of Impact Environmental Consulting Inc.

1 VILLAGE PLAZA
KIRCH PARK, NEW YORK 11754
800.888.6666 TELEPHONE
800.888.6666 FACSIMILE

Diagram 1: Geoprobe Operating System

Legend:

- ▲ groundwater probe mode
- ◆ soil probe mode

Table 1: Detected Analytes in Soil
Hempstead, New York
00-4084

Sample ID	SP-5 (4'-6") µg/Kg	SP-6 (4'-6") µg/Kg	SP-7 (4'-6") µg/Kg	SP-8 (4'-6") µg/Kg	SP-9 (4'-6") µg/Kg	Pit-1 (24"-32") µg/Kg	Pit-2 (0"-6") µg/Kg	NYSDEC TAGM #4046 Cleanup Objectives µg/Kg	NYSDEC McGovern Background Levels ¹ mg/Kg
Volatile Organic Analytes:									
Acetone	ND	ND	ND	ND	104	ND	ND	110	NA
Benzene	ND	ND	ND	ND	14	ND	ND	60	NA
2-Butanone (met)	ND	ND	ND	ND	24	ND	ND	300	NA
Carbon Disulfide	ND	5	ND	ND	ND	ND	ND	2700	NA
Ethylbenzene	ND	ND	ND	ND	182	ND	ND	5500	NA
Methylene Chloride	ND	ND	ND	ND	ND	9	ND	100	NA
Toluene	ND	ND	ND	ND	4,519	ND	ND	1500	NA
Total Xylenes	ND	ND	ND	ND	936	ND	ND	1200	NA
Unit	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Inorganics Analytes:									
Barium, Ba	57.4	55	3.7	43	101	12.3	50	300 or SB	15-600
Copper, Cu	16.9	58.4	6.54	25.8	19.3	26.4	322	25 or SB	1.0 - 50.0
Nickel, Ni	13.9	2,412	18.3	1,651	15.2	312	5,458	13 or SB	0.5 - 25.0
Zinc, Zn	826	146	2.9	28	112	28.5	143	20 or SB	9.0 - 50.0
Iron, Fe	20,810	5,976	3,635	5,367	13,157	2,327	23,477	2,000 or SB	2,000 - 550,000
Manganese, Mn	182	58.8	14.9	46.6	99.3	10.9	190	SB	50 - 5,000
Lead, Pb	123	117	3.39	65	204	62	40.8	SB	200 - 500
Mercury, Hg	0.26	8.2	ND	ND	0.35	0.1	0.03	0.1	0.001 - 0.2
Arsenic	ND	ND	ND	ND	ND	10.9	10.4	7.5 or SB	3.0 - 12.0
Chromium, Cr	23.3	31.8	35.3	13.3	19.8	872	730	50	1.5 - 40.0

Bold values represent concentrations above guidance values.

ND: Not Detected

NA: Not Available

¹Based upon the NYSDEC, E. McGovern Background Concentrations in Soil, 1987.

Table 2: Detected Analytes in Groundwater
Hempstead, New York
 00-408A

Sample ID	GWP-1	GWP-2	GWP-3	GWP-4	GWP-5	GWP-6	GWP-7	GWP-8	NYSDEC Ambient Water Quality Standards & Guidance Values
Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatile Organic Analytes:									
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	10	5
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	12	5
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	8	5
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	26	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	6	5
Toluene	ND	ND	ND	ND	ND	ND	ND	6	5
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	16	5
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	7	5
Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Inorganic Analytes:									
Copper, Cu	ND	ND	ND	300	60	ND	ND	ND	200
Nickel, Ni	ND	ND	380	121,800	37,500	460	ND	70	100
Selenium, Se	ND	ND	160	100	ND	ND	ND	50	10
Zinc, Zn	ND	ND	ND	490	100	ND	ND	ND	2000
Iron, Fe	830	5,270	960	4,330	4,570	510	1,100	48,500	300
Manganese, Mn	150	650	170	2,220	330	350	100	1,940	300
Chromium, Cr	ND	ND	ND	3,310	1,710	ND	ND	ND	50

Bold values represent concentrations above guidance values.
 ND: Not Detected
 NA: Not Available

3.3 Headspace Analysis

Headspace analysis was performed on each unsaturated soil sample acquired from probe nodes SP-1 through SP-9, Pit-1 and Pit-2 to provide precursory data regarding contamination. Results of the analysis were used to adjust the sample and analysis program to yield the most accurate and representative results. The results of the field analysis failed to detect any significant concentrations of hydrocarbons.

3.3.1 Headspace Analysis Procedure

Headspace analysis was performed on each of the acquired samples utilizing a portable photo ionization detection meter to measure what, if any, hydrocarbon concentrations were present in isolated portions of the secured samples. Headspace analysis was conducted by partially filling a wide-mouth glass container with sample aliquot and sealing the top with aluminum foil, thereby creating a void. This void is referred to as the sample headspace.

To facilitate the detection of any hydrocarbons contained within the headspace, the container was agitated for a period of thirty (30) seconds. The probe of the vapor analyzer was then injected through the foil into the headspace to measure the hydrocarbon concentrations present. A Photovac Micro-Tip, photo ionization detection meter (PID) was the organic vapor analyzer selected for the head space analysis. A PID utilizes the principle of photo ionization for detection and measurement of hydrocarbon compounds. A PID does not respond to all compounds similarly; rather, each compound has its own response factor relative to its calibration. For this investigation, the PID was calibrated to isobutylene. Hydrocarbon relative response factors for a PID calibrated to isobutylene are published by the manufacturer.

3.4 Sample Characterization

A visual inspection of all samples recovered during the installation of each of the soil probes was conducted to identify any gross signs of chemical contamination and to classify the sample media. Color classifications were made in accordance with the Munsell Classification System. Gradation classifications were made in accordance with the Unified Soil Classification System.

In general, the subsurface samples secured from the investigation were found to consist of a brown to light brown, medium sand with gravel. No significant odorous indications of petrochemical contamination were noted from subsurface soil samples secured from the investigation.

3.5 Groundwater Sampling

Eight (8) groundwater probe node, identified as GWP-1 through GWP-8, were sited by Kosuri Engineering at strategic locations on the subject property corresponding to potential sources of contamination and regional groundwater flow direction. Groundwater was encountered at approximately fourteen (14) feet BEG. Regional groundwater flow direction is predicted to be toward the south with a slight western component. One groundwater sample was secured from each probe node. The groundwater samples were field analyzed for pH, specific conductivity and turbidity. Results of the field measurements were utilized to establish steady state conditions within the groundwater aquifer. Turbidity of the groundwater samples was measured utilizing a turbidity meter in NTUs. All of the groundwater samples preserved for metals analysis yielded concentrations less than 5 NTUs. Accordingly, no groundwater samples were filtered in the field prior to analysis. The following presents a summary of groundwater sampling locations on the subject property.

Probe node GWP-1 was sited on the northern border of the subject property adjacent to the suspected gasoline UST. This location was to be representative of groundwater quality beneath the UST and hydraulically up-gradient of the former on-site electroplating operations (groundwater quality entering the subject property).

Groundwater probe node GWP-2 was sited on the eastern portion of the subject property adjacent to the suspected separator tank. This location was to be representative of groundwater quality beneath the oil separator and the eastern floor drain and hydraulically down-gradient of the suspected fuel oil UST.

Groundwater probe node GWP-3 was sited on the western portion of the subject property within the confines of the western floor drain. This location was to be representative of groundwater quality beneath the western floor drain and former above ground chemical storage area.

Groundwater probe node GWP-4 was sited on the western portion of the subject property in the vicinity of the chemical release area (former bay doors). This location was to be representative of groundwater quality beneath the release area and former above ground chemical storage area.

Groundwater probe nodes GWP-5, GWP-6, GWP-7 and GWP-8 were sited on a transect along the southern border of subject property. These locations were to be representative of groundwater quality hydraulically down-gradient of the subject property (groundwater quality exiting the subject property).

3.5.1 Temporary Well Point Sampling Procedure

The groundwater sampling system used was the *Geoprobe* Screen Point 15, which is designed to accurately collect grab samples of groundwater. The Screen Point 15 uses a screen with a standard slot size of 0.004 inches that is sealed inside a 1.5-inch ID alloy steel sheath as it is driven to depth. The screen is sealed inside the sheath with Neoprene O-rings which prevent infiltration of formation fluids until the desired depth is attained. When the screen has been driven to the depth of interest in the formation, extension rods are used to hold the screen in position as the driving rods are retracted approximately 4 feet. The 4-foot long sampler sheath forms a seal above the screen as it is retracted. A total of 41.5 inches of slotted screen is placed into contact with the formation. The Screen Point 15 groundwater sampler has a total boring diameter of 1.5 inches, the outside diameter of the screen is 1.0 inch. This provides for a maximum of 0.25 inches between the screen and the natural formation as the sampler sheath is retracted. These conditions approach the ideal for natural formation development, which can be conducted when lower turbidity samples are required.

The groundwater sample was collected from the sampler utilizing 3/8 inch diameter disposable tubing equipped with a bottom check valve. The tubing extended from the surface down to the sampler. The tubing was oscillated until the process had achieved proper development.

The development and sampling procedures conformed to NYSDEC protocol. A field log protocol was conducted to record sampling data including: date, time, location, turbidity (NTUs), specific conductivity ($\mu\text{mhos/cm}$), pH, sample identification code, depth to water, method of development, and sampling technique. The temporary wells were developed by purging utilizing a peristaltic pump until achieving steady state conditions of pH and specific conductivity (minimum of three (3) static well volumes) from field measurements. Following development, one groundwater sample was acquired from each of the temporary wells utilizing dedicated tubing to prevent cross-contamination. The samples were allocated with minimal disturbance into the appropriate vessels.

3.6 Laboratory Sample Location and Frequency

The subsurface soil samples selected from probe nodes SP-1 through SP-9, Pit-1 and Pit-2 for laboratory analysis were containerized and labeled for identification purposes as follows: 00-408A-SP-1 (12'-14'), 00-408A-SP-3 (12'-14'), 00-408A-SP-5 (4'-6'), 00-408A-SP-6 (4'-6'), 00-408A-SP-7 (4'-6'), 00-408A-SP-8 (4'-6'), 00-408A-SP-9 (4'-6'), 00-408-Pit-1 (24"-32") and 00-408A-Pit-2 (0'-6"), respectively.

The groundwater samples selected from GWP-1 through GWP-8 for laboratory analysis were containerized and labeled for identification purposes as follows: 00-408A-GWP-1, 00-408A-GWP-2, 00-408A-GWP-3, 00-408A-GWP-4, 00-408A-GWP-5, 00-408A-GWP-6, 00-408A-GWP-7 and 00-408A-GWP-8, respectively.

The soil and groundwater samples acquired from each probe node were containerized in the appropriate vessels, preserved at 4°C in a cooler and transported under proper chain-of-custody procedures to a NYS-DOH certified commercial laboratory for analysis.

4.0 Quality Assurance and Quality Control Procedures (QA/QC)

The following sampling QA/QC protocol is in accordance with the United States Environmental Protection Agency's (USEPA) accepted sampling procedures for hazardous waste streams [Municipal Research Laboratory, 1980, Sampling and Analysis Procedures for Hazardous Material Waste Streams, Office of Emergency and Remedial Response, Cincinnati, Ohio. EPA-600/280-018] and American Society of Testing and Material's (ASTM's) Sampling Procedures.

4.1 Sampling Personnel

The activities associated with the survey, sampling and analysis plan were performed by or under the auspices of a USEPA Office of Emergency and Remedial Response, Certified Sampler for Hazardous Materials. The sample staff (samplers) possessed a minimum of a B.A. Degree in the Earth, Space or Biological Sciences or a B.S. Degree in Engineering. Samplers had a minimum of one (1) year experience in environmental/geological field work. Additionally, all samplers had received mandatory forty-hour Occupational Safety and Health Administration (OSHA) training on working with potentially hazardous materials and appropriate Hazard Communication Program and "Right-To-Know" training.

4.2 Sampling Equipment

Separate QA/QC measures were implemented for each of the instruments used in the performance of the SAP.

4.2.1 Geoprobe

Prior to arrival on the subject property and between sample locations, the probes were decontaminated by washing them with a detergent (Alconox) and potable water solution and rinsing them with distilled water.

4.2.2 Sample Vessels

All sample vessels were "level A" certified decontaminated containers supplied by a New York State Certified Commercial Laboratory. Samples analyzed for hydrocarbons were placed in containers with Teflon lined caps. Groundwater samples analyzed for metals were placed in plastic containers preserved with nitric acid. All samples were preserved by cooling them to a temperature of approximately four degrees Celsius.

4.3 Sample Documentation

A sample represents physical evidence. An essential part of liability reduction is the proper control of gathered evidence. To establish proper control, the following sample identification and chain-of custody procedures were followed.

4.3.1 Sample Identification

Sample identification was executed by use of a sample tag, log book and chain-of-custody form. Said documentation provided the following information: 1) the project code; 2) the sample laboratory number; 3) the sample preservation; 4) instrument used for source sample grabs; 5) the composite medium used for source sample grabs; 6) the date the sample was secured from the source media; 7) the time the sample was secured from the source media; and 8) the person who secured the sample from the source media.

4.3.2 Chain-of-Custody Procedures

Due to the evidential nature of samples, possession was traceable from the time the samples were collected until they were received by the testing laboratory. A sample was considered under custody if it: was in a person's possession; it was in a person's view, after being in possession; if it was in a person's possession and they locked it up; or, it was in a designated secure area. When transferring custody, the individuals relinquishing and receiving the samples signed, dated and noted the time on the Chain-of-Custody Form.

4.3.3 Laboratory-Custody Procedures

A designated sample custodian accepted custody of the shipped samples and verified that the information on the sample tags matched that on the Chain-of-Custody Records. Pertinent information as to shipment, pick-up, courier, etc., were entered in the "remarks" section. The custodian entered the sample tag data into a bound logbook.

The laboratory custodian used the sample tag number, or assigned a unique laboratory number to each sample tag, and assured that all samples were transferred to the proper analyst or stored in the appropriate source area. The laboratory custodian distributed samples to the appropriate analysts. Laboratory personnel were responsible for the care and custody of samples, from the time they were received, until the sample was exhausted or returned to the sample custodian. All identifying data sheets and laboratory records were retained as part of the permanent documentation. Samples received by the laboratory were retained until after analysis and quality assurance checks were completed.

5.0 Laboratory Analysis

5.1 Analytical Test Methods

The samples were transported to a New York State Certified Commercial Laboratory for analysis. Selection of the analytical test methods was based on the New York State Department of Environmental Conservation Spill Technology and Remediation Series (STARS) Memo #1, Petroleum Contaminated Soil Guidance Policy, the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) #4046 Determination of Soil Cleanup Objectives, the New York State Department of Environmental Conservation, Technical Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Limitations and the New York State Department of Environmental Conservation, Sampling Guidelines and Protocols, Technical Background and Quality Control Assurance for the New York State Department of Environmental Conservation Spill Response Program, dated September 1992.

The laboratory analysis performed on the subsurface soil samples secured from probe nodes SP-1 and SP-3 consisted of United States Environmental Protection Agency (USEPA) Test Method 8021 (STARS) for target volatile organic analytes and USEPA Test Method 8270 (STARS) for target semi-volatile organic analytes.

The laboratory analysis performed on the subsurface soil samples secured from probe nodes SP-5 through SP-9, Pit-1 and Pit-2 consisted of USEPA Test Method 8260 for target volatile organic analytes and USEPA Test Method 6010 for target inorganic analytes (13 priority pollutant metals).

The laboratory analysis performed on the groundwater sample secured from probe node GWP-1 consisted of USEPA Test Method 8260 for target volatile organic analytes, USEPA Test Method 8270 (STARS) for target semi-volatile organic analytes and USEPA Test Method 6010 for target inorganic analytes (13 priority pollutant metals).

The laboratory analysis performed on the groundwater sample secured from probe node GWP-2 through GWP-8 consisted of USEPA Test Method 8260 for target volatile organic analytes and USEPA Test Method 6010 for target inorganic analytes (13 priority pollutant metals).

Table 1: Detected Analytes in Soil
Hempstead, New York
00-408A

Sample ID	SP-5 (4'-6')	SP-6 (4'-6')	SP-7 (4'-6')	SP-8 (4'-6')	SP-9 (4'-6')	PH-1 (24"-32")	PH-2 (0"-6")	NYSDEC TAGM #4046 Cleanup Objectives	NYSDEC McGovern Background Levels ¹
Units	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	mg/Kg
Volatile Organic Analytes:									
Acetone	ND	ND	ND	ND	104	ND	ND	110	NA
Benzene	ND	ND	ND	ND	14	ND	ND	60	NA
2-Butanone (met)	ND	ND	ND	ND	24	ND	ND	300	NA
Carbon Disulfide	ND	5	ND	ND	ND	ND	ND	2700	NA
Ethylbenzene	ND	ND	ND	ND	182	ND	ND	5500	NA
Methylene Chloride	ND	ND	ND	ND	ND	9	ND	100	NA
Toluene	ND	ND	ND	ND	4,519	ND	ND	1500	NA
Total Xylenes	ND	ND	ND	ND	936	ND	ND	1200	NA
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Inorganics Analytes:									
Barium, Ba	57.4	55	3.7	43	101	12.3	50	300 or SB	15-600
Copper, Cu	16.9	58.4	6.54	23.8	19.3	26.4	322	25 or SB	1.0 - 50.0
Nickel, Ni	13.9	2,412	18.3	1,651	15.2	312	5,458	13 or SB	0.5 - 25.0
Zinc, Zn	836	146	2.9	28	112	28.5	143	20 or SB	9.0 - 50.0
Iron, Fe	20,810	5,976	3,635	5,367	13,157	2,327	23,477	2,000 or SB	2,000 - 550,000
Manganese, Mn	182	58.8	14.9	46.6	99.3	10.9	190	SB	50 - 5,000
Lead, Pb	123	117	3.39	63	204	62	40.8	SB	200 - 500
Mercury, Hg	0.26	0.2	ND	ND	0.35	0.1	0.03	0.1	0.001 - 0.2
Arsenic	ND	ND	ND	ND	ND	10.9	10.4	7.5 or SB	3.0 - 12.0
Chromium, Cr	23.3	31.8	35.3	13.3	19.8	872	730	50	1.5 - 40.0

Bold values represent concentrations above guidance values.

ND: Not Detected

NA: Not Available

¹ Based upon the NYSDEC, E. McGovern Background Concentrations in Soil, 1987.

Table 2: Detected Analytes in Groundwater
Hempstead, New York
 00-408A

Sample ID	GWP-1	GWP-2	GWP-3	GWP-4	GWP-5	GWP-6	GWP-7	GWP-8	NYSDEC Ambient Water Quality Standards & Guidance Values
<i>Unit</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>
Volatile Organic Analytes:									
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	10	5
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	12	5
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	8	5
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	26	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	6	5
Toluene	ND	ND	ND	ND	ND	ND	ND	6	5
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	16	5
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	7	5
<i>Unit</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>
Inorganic Analytes:									
Copper, Cu	ND	ND	ND	300	60	ND	ND	ND	200
Nickel, Ni	ND	ND	300	121,000	32,500	460	ND	70	100
Selenium, Se	ND	ND	100	100	ND	ND	ND	50	10
Zinc, Zn	ND	ND	ND	490	100	ND	ND	ND	2000
Iron, Fe	830	5,270	960	4,330	4,570	510	1,100	48,500	300
Manganese, Mn	150	650	170	2,220	330	350	100	1,940	300
Chromium, Cr	ND	ND	ND	3,310	1,710	ND	ND	ND	50

Bold values represent concentrations above guidance values.

ND: Not Detected

NA: Not Available

5.2 Analytical Results

The laboratory analysis of the soil samples selected from probe nodes SP-1 and SP-3 failed to detect any concentrations of target volatile or semi-volatile organic analytes.

The laboratory analysis of the soil samples selected from probe nodes SP-6, SP-9 and Pit-1 detected concentrations of target volatile organic analytes. The laboratory analysis of the soil samples selected from probe nodes SP-5, SP-7, SP-8 and Pit-2 failed to detect any concentrations of target volatile organic analytes.

The laboratory analysis of the soil samples selected from probe nodes SP-5 through SP-8, Pit-1 and Pit-2 detected concentrations of target inorganic analytes.

The laboratory analysis of the groundwater sample secured from probe node GWP-1 failed to detect any concentrations of target volatile or semi-volatile organic analytes. However, the laboratory analysis of the groundwater sample secured from probe node GWP-1 detected concentrations of inorganic analytes.

The laboratory analysis of the groundwater samples secured from probe node GWP-2 through GWP-7 failed to detect any concentrations of target volatile organic analytes. However, the laboratory analysis of the groundwater sample secured from probe node GWP-8 detected concentrations of target volatile organic analytes.

The laboratory analysis of the groundwater samples secured from probe node GWP-2 through GWP-7 detected concentrations of target inorganic analytes.

Table 1: Detected Analytes in Soil and Table 2: Detected Analytes in Groundwater, *Hempstead, New York* present a summary of the detected concentrations versus the relevant guidance values. The original laboratory analysis report as prepared by Long Island Analytical Laboratories, Inc. is presented in **Appendix A** of this document.

6.0 Evaluation of Results

A survey plan was designed to identify the presence of any subsurface structures associated with former on-site operations that represented mechanisms for the release of contaminants on the subject property. Such structures included underground storage tanks (USTs), underground wastewater injection wells (UIWs), and subsurface piping. An analysis of the data collected from the remote sensing survey revealed the following.

- Two subsurface anomalies consistent with USTs. These anomalies were suspected to represent the abandoned fuel oil and gasoline USTs.
- Subsurface piping interconnecting two floor drains via separator to the main sewer trap.
- Subsurface piping exiting the holding pit.
- The remote sensing survey failed to identify the presence of any wastewater UIWs.

Headspace analysis was performed on each unsaturated soil sample acquired from probe nodes SP-1 through SP-9, Pit-1 and Pit-2 to provide precursory data regarding contamination. The results of the field analysis failed to detect any significant concentrations of hydrocarbons.

The laboratory analysis of the soil samples selected from probe nodes SP-1 and SP-3 failed to detect any concentrations of target volatile or semi-volatile organic analytes.

The laboratory analysis of the soil samples selected from probe nodes SP-6, SP-9 and Pit-1 detected concentrations of target volatile organic analytes. One detected analyte concentration (toluene) from probe node SP-9 was above the applicable guidance criteria.¹ The laboratory analysis of the soil samples selected from probe nodes SP-5, SP-7, SP-8 and Pit-2 failed to detect any concentrations of target volatile organic analytes.

The laboratory analysis of the soil samples selected from probe nodes SP-5 through SP-8, Pit-1 and Pit-2 detected concentrations of target inorganic analytes. Several of the detected analyte concentrations from SP-5, SP-6, SP-8, SP-9, Pit-1 and Pit-2 were above the applicable guidance criteria.²

The laboratory analysis of the groundwater sample secured from probe node GWP-1 failed to detect any concentrations of target volatile or semi-volatile organic analytes. However, the laboratory analysis of the groundwater sample secured from probe node GWP-1 detected concentrations of inorganic analytes. One detected analyte concentration (iron) was above the applicable guidance criteria.³

¹ NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives.

² Ibid.

³ NYSDEC, Technical Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Limitations.

The laboratory analysis of the groundwater samples secured from probe node GWP-2 through GWP-7 failed to detect any concentrations of target volatile organic analytes.

The laboratory analysis of the groundwater sample secured from probe node GWP-8 detected concentrations of target volatile organic analytes. The detected concentrations were marginally above the applicable guidance criteria.⁴

The laboratory analysis of the groundwater samples secured from probe node GWP-2 through GWP-7 detected concentrations of target inorganic analytes. Several of the detected analyte concentrations were above the applicable guidance criteria.⁵

⁴ NYSDEC, Technical Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Limitations.

⁵ Ibid.

7.0 Conclusions

Kosuri Engineering & Consulting, P.C. has performed a Phase II Environmental Site Assessment, Limited Subsurface Investigation on the subject property in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry. The investigation consisted of the sampling and analysis of subsurface soil and groundwater to further define the environmental quality of the subject property with respect to the recognized environmental condition outlined in Section 2.3 of this document.

Based upon this assessment, dated April 9, 2001, Kosuri Engineering & Consulting, P.C. concludes that former on-site electroplating operations have significantly impacted the environmental quality of the subject property. Accordingly, additional activities are recommended to further define and/or enhance the environmental quality of the subject property. Further, the on-site USTs should be properly abandoned in accordance with all applicable regulations.

KOSURI ENGINEERING
& CONSULTING, P.C.



Eshwar Kosuri
Project Manager



Kevin Klecka
Environmental Scientist

DISCLAIMER FOR PHASE II ENVIRONMENTAL SITE ASSESSMENT

The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.

In preparing this report, Kosuri Engineering & Consulting, P.C. and Impact Environmental Consulting, Inc. may have relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to Impact Environmental Consulting, Inc. at the time of the subject property assessment. Although there may have been some degree of overlap in the information provided by these various sources, Impact Environmental Consulting, Inc. did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this subject property assessment.

Observations were made of the subject property and of structures on the subject property as indicated within the report. Where access to portions of the subject property or to structures on the subject property was unavailable or limited, Impact Environmental Consulting, Inc. renders no opinion as to the presence of non-hazardous or hazardous materials, or to the presence of indirect evidence relating to non-hazardous or hazardous materials, in that portion of the subject property or structure. In addition, Kosuri Engineering & Consulting, P.C. and Impact Environmental Consulting, Inc. renders no opinion as to the presence of hazardous materials, or the presence of indirect evidence relating to hazardous materials, where direct observation of the interior walls, floor, or ceiling of a structure on a subject property was obstructed by objects or coverings on or over these surfaces.

Kosuri Engineering & Consulting, P.C. and Impact Environmental Consulting, Inc. did not perform testing or analyses to determine the presence or concentration of asbestos at the subject property or in the environment of the subject property under the scope of the services performed.

The conclusions and recommendations contained in this report are based in part, where noted, upon the data obtained from a limited number of soil samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

Any water level readings made in test pits, borings, and/or observation wells were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

Except as noted within the text of the report, no qualitative laboratory testing was performed as part of the subject property assessment. Where such analyses have been conducted by an outside laboratory, Impact Environmental Consulting, Inc. has relied upon the data provided, and has not conducted an independent evaluation of the reliability of the data.

The conclusions and recommendations contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. The data have been reviewed and interpretations were made in the report. As indicated within the report, some of the data may be preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, the data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

Chemical analyses have been performed for specific constituents during the course of this subject property assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the subject property.

APPENDIX A:
Laboratory Report, Long Island Analytical Laboratories, Inc.
Hempstead, New York
00-408A

Laboratory Analytical Results

***48 Sewell Street, Hempstead, New York
00-408A***

Client: Impact	Client ID: 00-408, Hempstead (SP-1 (12-14'))
Date received: 3/27/01	Laboratory ID: 0112549
Date extracted: 3/31/01	Matrix: Soil
Date analyzed: 3/31/01	ELAP #: 11693

EPA METHOD 8270 (STARS)

Parameter	CAS No.	Results ug/kg
Naphthalene	91-20-3	<40
Anthracene	120-12-7	<40
Fluorene	86-73-7	<40
Phenanthrene	85-01-8	<40
Pyrene	129-00-0	<40
Acenaphthene	83-32-9	<40
Benzo(a)Anthracene	56-55-3	<40
Fluoranthene	206-44-0	<40
Benzo(b)Fluoranthene	205-99-2	<40
Benzo(k)fluoranthene	207-08-9	<40
Chrysene	218-01-9	<40
Benzo(a)Pyrene	50-32-8	<40
Benzo(g,h,i)Perylene	191-24-2	<40
Indeno(1,2,3-cd)Pyrene	193-39-5	<40
Dibenzo(a,h)Anthracene	53-70-3	<40

Michael Versall

Laboratory Director



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ANALYTICAL
LABORATORIES INC.**

101-4 Colin Drive • Holbrook, New York 11741

Phone (831) 472-3400 • Fax (831) 472-8505 • Email: LIAL@lialinc.com

Client: Impact	Client ID: 00-408, Hempstead (SP-1 (12-14'))
Date received: 3/27/01	Laboratory ID: 0112549
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8021 (STARS)

Parameter	CAS No.	Results ug/kg
MTBE	1634-04-4	<5
Benzene	71-43-2	<5
n-Butylbenzene	104-51-8	<5
sec-Butylbenzene	135-98-7	<5
tert-Butylbenzene	98-06-8	<5
Isopropylbenzene	98-82-8	<5
p-Isopropyltoluene	99-87-6	<5
n-Propylbenzene	103-65-1	<5
Ethylbenzene	100-41-4	<5
Naphthalene	91-20-3	<5
Toluene	108-88-3	<5
1,2,4-Trimethylbenzene	95-63-6	<5
1,3,5-Trimethylbenzene	108-67-8	<5
p & m-Xylene	1330-20-7	<10
o-Xylene	1330-20-7	<5

Michael Venzel

Laboratory Director



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Date received: 3/27/01	Laboratory IL 0112550
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8021 (STARS)

Parameter	CAS No.	Results ug/kg
MTBE	1634-04-4	<5
Benzene	71-43-2	<5
n-Butylbenzene	104-51-8	<5
sec-Butylbenzene	135-98-7	<5
tert-Butylbenzene	98-06-8	<5
Isopropylbenzene	98-82-8	<5
p-Isopropyltoluene	99-87-6	<5
n-Propylbenzene	103-65-1	<5
Ethylbenzene	100-41-4	<5
Naphthalene	91-20-3	<5
Toluene	108-88-3	<5
1,2,4-Trimethylbenzene	95-63-6	<5
1,3,5-Trimethylbenzene	108-67-8	<5
p & m-Xylene	1330-20-7	<10
o-Xylene	1330-20-7	<5

Michael Vernaldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (SP-3 (12-14'))
Date received: 3/27/01	Laboratory ID: 0112550
Date extracted: 3/31/01	Matrix: Soil
Date analyzed: 3/31/01	ELAP #: 11693

EPA METHOD 8270 (STARS)

Parameter	CAS No.	Results ug/kg
Naphthalene	91-20-3	<40
Anthracene	120-12-7	<40
Fluorene	86-73-7	<40
Phenanthrene	85-01-8	<40
Pyrene	129-00-0	<40
Acenaphthene	83-32-9	<40
Benzo(a)Anthracene	56-55-3	<40
Fluoranthene	206-44-0	<40
Benzo(b)Fluoranthene	205-99-2	<40
Benzo(k)fluoranthene	207-08-9	<40
Chrysene	218-01-9	<40
Benzo(a)Pyrene	50-32-8	<40
Benzo(g,h,i)Perylene	191-24-2	<40
Indeno(1,2,3-cd)Pyrene	193-39-5	<40
Dibenzo(a,h)Anthracene	53-70-3	<40

Michael Verseth

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (SP-5 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112551
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	106-96-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-8	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-83-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-48-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (SP-5 (4-87))
Date received: 3/27/01	Laboratory ID: 0112551
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-8	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-8	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-8	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verseth

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (SP-5 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112551
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	57.4
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	16.9
NICKEL, Ni	1.65 mg/kg	13.9
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	826
IRON, Fe	1.65 mg/kg	20,810
MANGANESE, Mn	1.65 mg/kg	182
LEAD, Pb	1.65 mg/kg	123
MERCURY, Hg	0.020 mg/kg	0.26
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	23.3

Performed by SW-846 Method 6010

Michael Verseth

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (SP-6 {4-6'})
Date received: 3/27/01	Laboratory ID: 0112562
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-08-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (SP-6 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112552
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	81-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-8	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-87-8	<5
1,2,4-TRIMETHYLBENZENE	95-83-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

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Client: Impact	Client ID: 00-408, Hempstead (SP-6 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112552
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	55.0
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	58.4
NICKEL, Ni	1.65 mg/kg	2,412
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	146
IRON, Fe	1.65 mg/kg	5,976
MANGANESE, Mn	1.65 mg/kg	58.8
LEAD, Pb	1.65 mg/kg	117
MERCURY, Hg	0.020 mg/kg	0.20
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	31.8

Performed by SW-846 Method 6010

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (SP-7 {4-6})
Date received: 3/27/01	Laboratory ID: 0112553
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-88-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-8	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	98-12-8	<5
1,2-DIBROMOETHANE	106-83-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (SP-7 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112553
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-8	<5
1,1,2-TRICHLOROETHANE	78-00-6	<5
TRICHLOROETHENE	78-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	76-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verseth

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Client: Impact	Client ID: 00-408, Hempstead (SP-7 {4-8'})
Date received: 3/27/01	Laboratory ID: 0112553
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	3.70
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	6.54
NICKEL, Ni	1.65 mg/kg	18.3
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	2.90
IRON, Fe	1.65 mg/kg	3,635
MANGANESE, Mn	1.65 mg/kg	14.9
LEAD, Pb	1.65 mg/kg	3.39
MERCURY, Hg	0.020 mg/kg	<0.020
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	35.3

Performed by SW-846 Method 6010

Michael Versaldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (SP-8 (4-87))
Date received: 3/27/01	Laboratory ID: 0112554
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	58-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-83-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (SP-8 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112554
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-87-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-83-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Versaldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (SP-8 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112554
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	43.0
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.85 mg/kg	25.8
NICKEL, Ni	1.65 mg/kg	1,651
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.85 mg/kg	28.0
IRON, Fe	1.85 mg/kg	5,367
MANGANESE, Mn	1.65 mg/kg	46.6
LEAD, Pb	1.65 mg/kg	65.0
MERCURY, Hg	0.020 mg/kg	<0.020
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	13.3

Performed by SW-846 Method 6010

Michael Versaldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (SP-9 (4-6"))
Date received: 3/27/01	Laboratory ID: 0112555
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	14
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	85-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-80-5	<5



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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Impact	Client ID: 00-408, Hempstead (SP-9 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112555
Date extracted: 3/28/01	Matrix: Soil
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	584-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	182
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	81-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	4,519
1,2,3-TRICHLOROBENZENE	87-81-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-89-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	104
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	24
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	511
o-XYLENE	1330-20-7	425



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Michael Vanzetti

Laboratory Director

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Client: Impact	Client ID: 00-408, Hempstead (SP-9 (4-6'))
Date received: 3/27/01	Laboratory ID: 0112555
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	101
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	19.3
NICKEL, Ni	1.65 mg/kg	15.2
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	112
IRON, Fe	1.65 mg/kg	13,157
MANGANESE, Mn	1.65 mg/kg	99.3
LEAD, Pb	1.65 mg/kg	204
MERCURY, Hg	0.020 mg/kg	0.35
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	19.8

Performed by SW-846 Method 6010

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-1)
Date received: 3/27/01	Laboratory ID: 0112556
Date extracted: 4/3/01	Matrix: Liquid
Date analyzed: 4/3/01	ELAP #: 11693

EPA METHOD 8270 (STARS)

Parameter	CAS No.	Results ug/L
Naphthalene	91-20-3	<5
Anthracene	120-12-7	<5
Fluorene	86-73-7	<5
Phenanthrene	85-01-8	<5
Pyrene	129-00-0	<5
Acenaphthene	83-32-9	<5
Benzo(a)Anthracene	56-55-3	<5
Fluoranthene	206-44-0	<5
Benzo(b)Fluoranthene	205-98-2	<5
Benzo(k)fluoranthene	207-08-9	<5
Chrysene	218-01-9	<5
Benzo(a)Pyrene	50-32-8	<5
Benzo(g,h,i)Perylene	191-24-2	<5
Indeno(1,2,3-cd)Pyrene	193-39-5	<5
Dibenzo(a,h)Anthracene	53-70-3	<5

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Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-1)
Date received: 3/27/01	Laboratory ID: 0112556
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-6	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-0	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-83-4	<5
DIBROMOMETHANE	74-85-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	76-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Date received: 3/27/01	Laboratory ID: 0112556
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-8	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-8	<5
METHYLENE CHLORIDE	75-08-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-89-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-06-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Versalli

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-1)
Date received: 3/27/01	Laboratory ID: 0112556
Date extracted: 3/29/01	Matrix: Liquid
Date analyzed: 3/29/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	<0.05
NICKEL, Ni	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
IRON, Fe	0.05 mg/L	0.83
MANGANESE, Mn	0.05 mg/L	0.15
LEAD, Pb	0.05 mg/L	<0.05
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	<0.05

Method: SW846, 7000 series analysis

Michael Vassili

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-2)
Date received: 3/27/01	Laboratory ID: 0112557
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-87-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-78-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-3	<5



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Client: Impact	Client ID: 00-408, Hempstead (GWP-2)
Date received: 3/27/01	Laboratory ID: 0112557
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-85-1	<5
STYRENE	100-42-6	<5
1,1,1,2-TETRACHLOROETHANE	630-20-8	<5
1,1,2,2-TETRACHLOROETHANE	78-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	78-00-5	<5
TRICHLOROETHENE	79-01-8	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-8	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-8	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Vernaldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-2)
Date received: 3/27/01	Laboratory ID: 0112557
Date extracted: 3/29/01	Matrix: Liquid
Date analyzed: 3/29/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	<0.05
NICKEL, Ni	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
IRON, Fe	0.05 mg/L	5.27
MANGANESE, Mn	0.05 mg/L	0.65
LEAD, Pb	0.05 mg/L	<0.05
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	<0.05

Method: SW846, 7000 series analysis

Michael Versaldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-3)
Date received: 3/27/01	Laboratory ID: 0112558
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-68-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-99-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-48-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (GWP-3)
Date received: 3/27/01	Laboratory ID: 0112558
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-8	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-83-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-8	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Vernaldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-3)
Date received: 3/27/01	Laboratory ID: 0112558
Date extracted: 3/29/01	Matrix: Liquid
Date analyzed: 3/29/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	<0.05
NICKEL, Ni	0.05 mg/L	0.38
SELENIUM, Se	0.05 mg/L	0.10
IRON, Fe	0.05 mg/L	0.96
MANGANESE, Mn	0.05 mg/L	0.17
LEAD, Pb	0.05 mg/L	<0.05
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	<0.05

Method: SW846, 7000 series analysis

Michael Veraldi

Laboratory Director



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101-4 Colin Drive • Holbrook, New York 11741

"TOMORROW'S ANALYTICAL SOLUTIONS TODAY"

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Client: Impact	Client ID: 00-408, Hempstead (GWP-4)
Date received: 3/27/01	Laboratory ID: 0112559
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-8	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-68-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	98-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-9	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (GWP-4)
Date received: 3/27/01	Laboratory ID: 0112559
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-8	<5
1,1,2,2-TETRACHLOROETHANE	78-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	78-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-8	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verseth

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Phone (631) 472-3400 • Fax (631) 472-8605 • Email: LIAL@lialinc.com

Client: Impact	Client ID: 00-408, Hempstead (GWP-4)
Date received: 3/27/01	Laboratory ID: 0112559
Date extracted: 3/29/01	Matrix: Liquid
Date analyzed: 3/29/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	0.30
NICKEL, Ni	0.05 mg/L	121
SELENIUM, Se	0.05 mg/L	0.10
IRON, Fe	0.05 mg/L	4.33
MANGANESE, Mn	0.05 mg/L	2.22
LEAD, Pb	0.05 mg/L	<0.005
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	3.31
ZINC, Zn	0.05 mg/L	0.49

Method: SW846, 7000 series analysis

Michael Versaldi

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Client: Impact	Client ID: 00-408, Hempstead (GWP-5)
Date received: 3/27/01	Laboratory ID: 0112560
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-87-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
iso-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-8	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-48-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (GWP-5)
Date received: 3/27/01	Laboratory ID: 0112560
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-8	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	98-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verseth

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Client: Impact	Client ID: 00-408, Hempstead (GWP-5)
Date received: 3/27/01	Laboratory ID: 0112560
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	0.06
NICKEL, Ni	0.05 mg/L	32.5
SELENIUM, Se	0.05 mg/L	<0.05
IRON, Fe	0.05 mg/L	4.57
MANGANESE, Mn	0.05 mg/L	0.33
LEAD, Pb	0.05 mg/L	<0.05
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	1.71
ZINC, Zn	0.05 mg/L	0.10

Method: SW846, 7000 series analysis

Michael Versaldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-6)
Date received: 3/27/01	Laboratory ID: 0112561
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-88-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-8	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (GWP-6)
Date received: 3/27/01	Laboratory ID: 0112561
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	694-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	98-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	67-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	98-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-8	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venzke

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-6)
Date received: 3/27/01	Laboratory ID: 0112561
Date extracted: 3/29/01	Matrix: Liquid
Date analyzed: 3/29/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	<0.05
NICKEL, Ni	0.05 mg/L	0.46
SELENIUM, Se	0.05 mg/L	<0.05
IRON, Fe	0.05 mg/L	0.51
MANGANESE, Mn	0.05 mg/L	0.35
LEAD, Pb	0.05 mg/L	<0.05
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	<0.05

Method: SW846, 7000 series analysis

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-7)
Date received: 3/27/01	Laboratory ID: 0112562
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	58-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	87-86-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (GWP-7)
Date received: 3/27/01	Laboratory ID: 0112562
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	583-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	98-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,1,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-8	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	98-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-8	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-7)
Date received: 3/27/01	Laboratory ID: 0112562
Date extracted: 3/29/01	Matrix: Liquid
Date analyzed: 3/29/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	<0.05
NICKEL, Ni	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
IRON, Fe	0.05 mg/L	1.10
MANGANESE, Mn	0.05 mg/L	0.10
LEAD, Pb	0.05 mg/L	<0.05
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	<0.05

Method: SW846, 7000 series analysis

Michael Verseth

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-8)
Date received: 3/27/01	Laboratory ID: 0112563
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	76-26-2	<5
BROMOMETHANE	74-83-8	<5
n-BUTYLBENZENE	104-51-6	10
sec-BUTYLBENZENE	135-98-8	12
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (GWP-8)
Date received: 3/27/01	Laboratory ID: 0112563
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	583-58-6	<5
ETHYLBENZENE	100-41-4	6
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	8
p-ISOPROPYLTOLUENE	99-87-8	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	26
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	78-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	6
1,2,3-TRICHLOROBENZENE	87-61-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-8	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-87-8	7
1,2,4-TRIMETHYLBENZENE	95-63-8	16
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venezia

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-8)
Date received: 3/27/01	Laboratory ID: 0112563
Date extracted: 3/29/01	Matrix: Liquid
Date analyzed: 3/29/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	<0.05
NICKEL, Ni	0.05 mg/L	0.07
SELENIUM, Se	0.05 mg/L	0.05
IRON, Fe	0.05 mg/L	48.5
MANGANESE, Mn	0.05 mg/L	1.94
LEAD, Pb	0.05 mg/L	<0.05
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	<0.05

Method: SW846, 7000 series analysis

Michael Veneth

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (Pit-1 (24"-32"))
Date received: 3/30/01	Laboratory ID: 0112749
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-88-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	58-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-83-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-48-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (Plt-1 {24"-32"})
Date received: 3/30/01	Laboratory ID: 0112749
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-8	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	9
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-8	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-83-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	691-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verseth

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (Pit-1 (24"-32"))
Date received: 3/30/01	Laboratory ID: 0112749
Date extracted: 4/4/01	Matrix: Soil
Date analyzed: 4/4/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	12.3
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	26.4
NICKEL, Ni	1.65 mg/kg	312
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	28.5
IRON, Fe	1.65 mg/kg	2,327
MANGANESE, Mn	1.65 mg/kg	10.9
LEAD, Pb	1.65 mg/kg	62.0
MERCURY, Hg	0.020 mg/kg	0.10
ARSENIC, As	6.60 mg/kg	10.9
CHROMIUM, Cr	1.65 mg/kg	872

Performed by SW-846 Method 6010

Michael Venzke

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (Pit-2 (0-6"))
Date received: 3/30/01	Laboratory ID: 0112750
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-83-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



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Client: Impact	Client ID: 00-408, Hempstead (Pit-2 (0-6"))
Date received: 3/30/01	Laboratory ID: 0112750
Date extracted: 4/2/01	Matrix: Soil
Date analyzed: 4/2/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-8	<5
ETHYLBENZENE	100-41-4	14
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-08-2	26
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	8
1,2,3-TRICHLOROBENZENE	87-61-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-8	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	64
o-XYLENE	1330-20-7	19

Michael Venezia

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (Pit-2 {0-6"})
Date received: 3/30/01	Laboratory ID: 0112750
Date extracted: 4/4/01	Matrix: Soil
Date analyzed: 4/4/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	50.0
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	322
NICKEL, Ni	1.65 mg/kg	5,458
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	143
IRON, Fe	1.65 mg/kg	23,477
MANGANESE, Mn	1.65 mg/kg	180
LEAD, Pb	1.65 mg/kg	40.8
MERCURY, Hg	0.020 mg/kg	0.03
ARSENIC, As	6.60 mg/kg	10.4
CHROMIUM, Cr	1.65 mg/kg	730

Performed by SW-846 Method 6010

Michael Veraldi

Laboratory Director



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APPENDIX B:

Photo Log

Hempstead, New York

00-408A

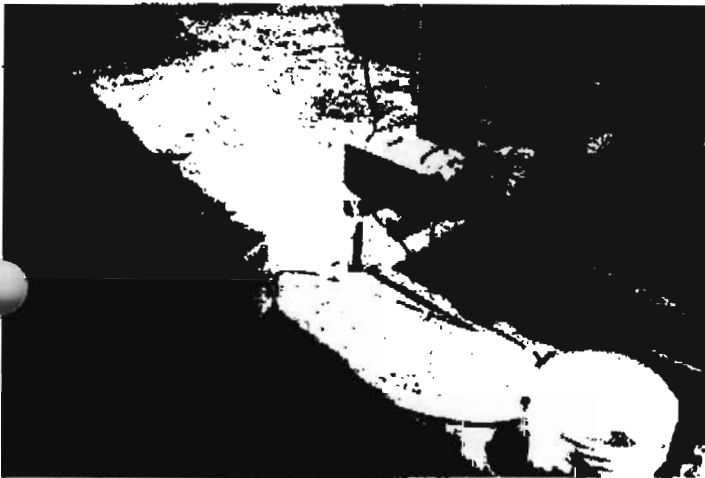
48 Sewell Street, Hempstead, New York



4/10/2001



4/10/2001



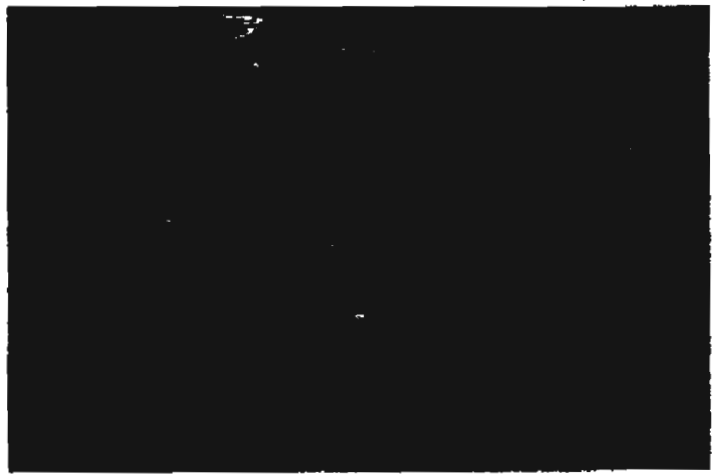
4/10/2001



4/10/2001

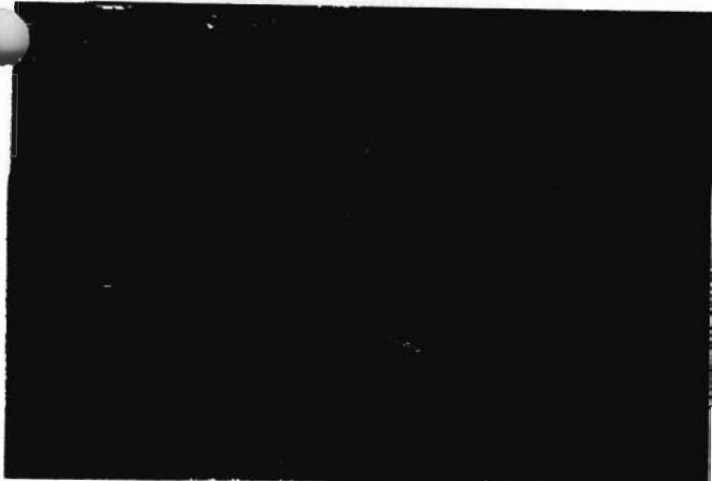


4/10/2001



4/10/2001

48 Sewell Street, Hempstead, New York



4/10/2001



4/10/2001



4/10/2001



4/10/2001



4/10/2001



4/10/2001

48 Sewell Street, Hempstead, New York



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4/10/2001



4/10/2001



4/10/2001

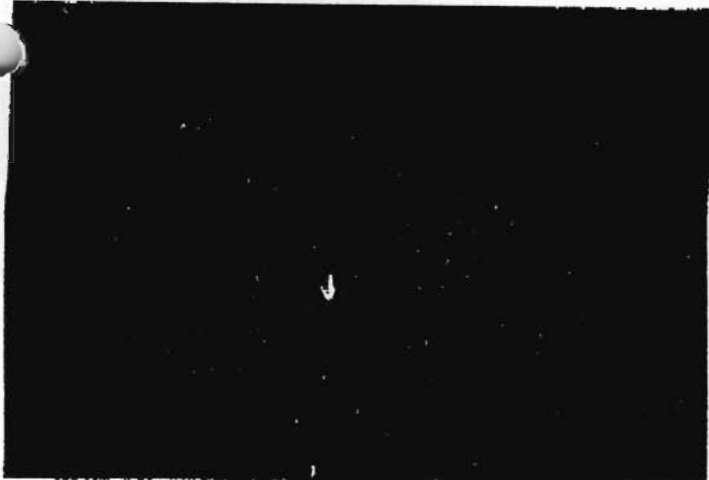


4/10/2001



4/10/2001

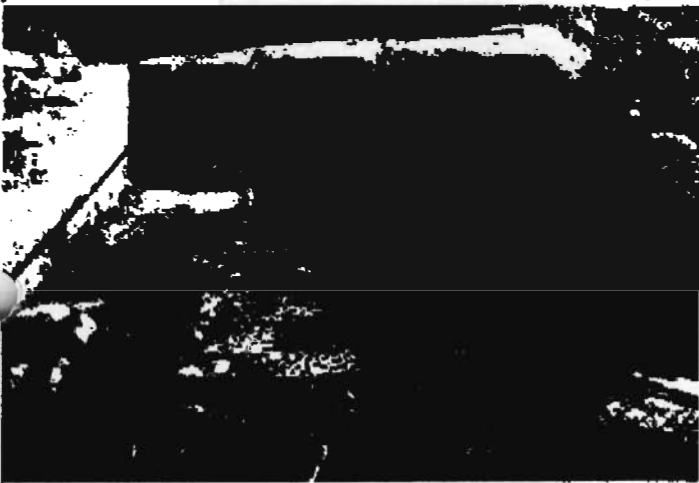
48 Sewell Street, Hempstead, New York



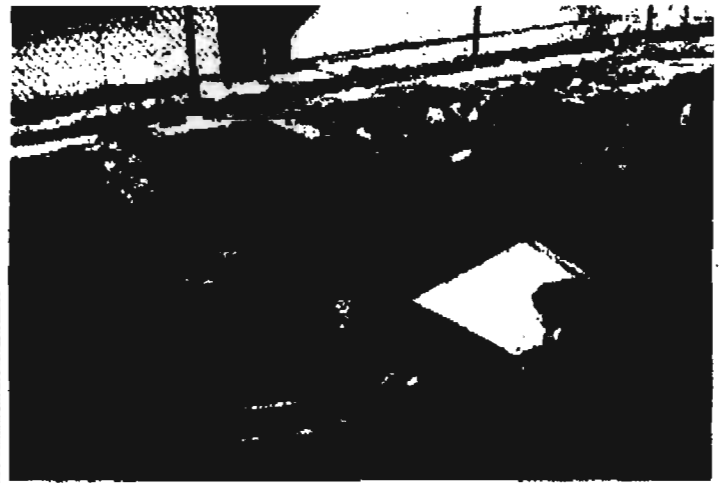
4/10/2001



4/10/2001



4/10/2001



4/10/2001



4/10/2001

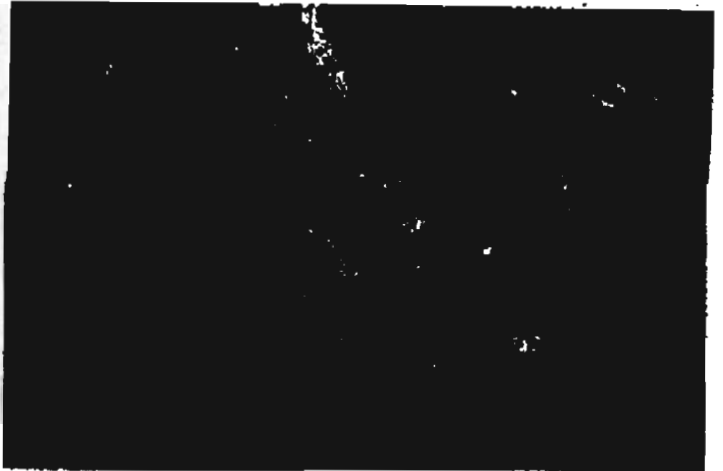


4/10/2001

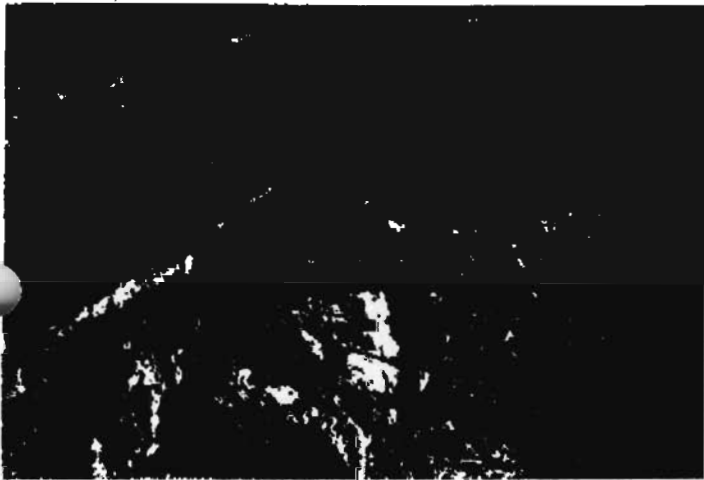
48 Sewell Street, Hempstead, New York



4/10/2001



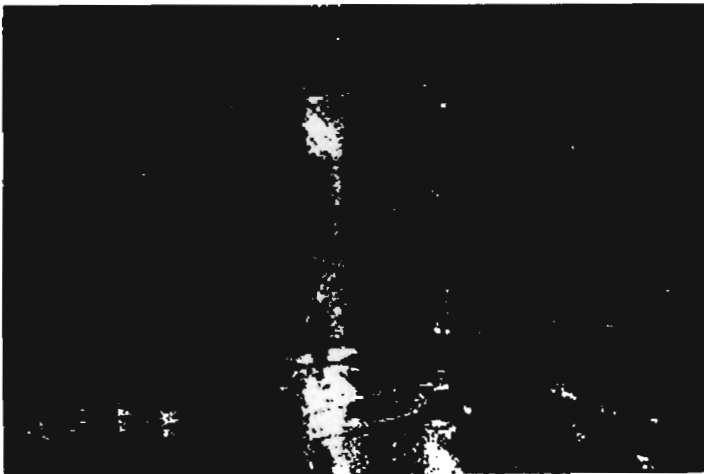
4/10/2001



4/10/2001



4/10/2001



4/10/2001

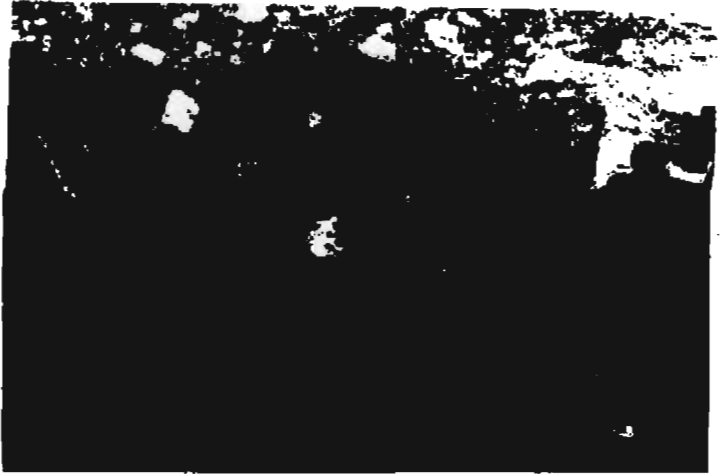


4/10/2001

48 Sewell Street, Hempstead, New York



4/10/2001



4/10/2001



4/10/2001

Client: Impact	Client ID: 00-408, Hempstead (GWP-3)
Date received: 3/27/01	Laboratory ID: 0112558
Date extracted: 3/29/01	Matrix: Liquid
Date analyzed: 3/29/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	<0.05
NICKEL, Ni	0.05 mg/L	0.38
SELENIUM, Se	0.05 mg/L	0.10
IRON, Fe	0.05 mg/L	0.96
MANGANESE, Mn	0.05 mg/L	0.17
LEAD, Pb	0.05 mg/L	<0.05
MERCURY, Hg	0.002 mg/L	<0.002
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	<0.05

Method: SW846, 7000 series analysis

Michael Veraldo

Laboratory Director



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Client: Impact	Client ID: 00-408, Hempstead (GWP-4)
Date received: 3/27/01	Laboratory ID: 0112559
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-8	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-68-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	98-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5



**LONG
ISLAND
ANALYTICAL
LABORATORIES INC.**

101-4 Colln Drive • Holbrook, New York 11741

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LABORATORY ANALYTICAL SOLUTIONS FORM

Client: Impact	Client ID: 00-408, Hempstead (GWP-4)
Date received: 3/27/01	Laboratory ID: 0112559
Date extracted: 3/28/01	Matrix: Liquid
Date analyzed: 3/28/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-8	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-6	<5
TRICHLOROETHENE	78-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-8	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Versalli

Laboratory Director



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ANALYTICAL
LABORATORIES INC.**

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EMERSON ANALYTICAL SOLUTIONS TODAY™

FRANCIS T. PURCELL
COUNTY EXECUTIVE



LUDWIG C. HASL, P.E.
COMMISSIONER

COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
MINEOLA, NEW YORK 11501

February 28, 1986

Mr. Ludwig Husslein
President
Husslein Plating Corp.
495 Peninsula Boulevard
Hempstead, NY 11550

Re: Industrial Pretreatment Program
Application for Discharge Permit
Husslein Plating Corp.
ID# 22109903

Dear Mr. Husslein:

The Nassau County Department of Public Works (NCDPW) over the last several years has been developing an Industrial Pretreatment Program in accordance with Federal and State regulations governing publicly owned wastewater treatment works (POTW). On September 26, 1985, the NCDPW was informed by the US Environmental Protection Agency (EPA) of the approval of its Industrial Pretreatment Program.

Control Authority - With this approval came the responsibility of "control authority". In addition to our past activities of regulating input to our sewer system, the Department of Public Works is now responsible for the implementation and enforcement of all federal, state and local pretreatment standards for any Significant Industrial User (SIU) contributing to the Nassau County POTW.

Discharge Permit - The main vehicle by which an SIU is to be regulated is through the issuance of a discharge permit by the NCDPW. This discharge permit would be in addition to any existing connection permit that a SIU may have. Also, it will only be issued to cover a period of no more than three(3) years. Your facility has been designated as an SIU and you are now required to apply for the necessary discharge permit.

Mr. L. Husslein
Page 2
February 28, 1986

Application Form - An application (Form IPP 410) is enclosed for your use. This form is rather extensive, and is designed to satisfy all federal, state and local reporting requirements. Attached to this application are several documents which we hope will clarify some of your requirements and aid in the understanding of this permit process. A list of these attachments is as follows:

- Attachment I - Nassau County Sewer Regulations Ordinance No. 266-1985
- Attachment II - Excerpt from federal regulations- 40 CFR 403.12
- Attachment III - Excerpt from federal regulations- 40 CFR 261, Subparts C and D
- Attachment IV - Summary of proposed New York State regulations - NYCRR Part 360
- Attachment V - Priority Pollutant Summary Listing
- Attachment VI - Promulgated Categorical Standards Electroplating

Wastewater Sampling - In order to assure that your wastewater is sampled correctly, (in accordance with Nassau County Sewer Ordinance - Section 5.4 and 40 CFR 403.12) we suggest that you retain the services of a competent laboratory and/or sanitary engineering consultant. All sampling and analytical procedures must be performed in accordance with the techniques and requirements described in the permit application and associated regulations. Analytical results must be reported by the laboratory performing the analyses, on a form or letterhead indicating its name. Accompanying the results must be a complete explanation of the sampling and analytical procedures used.

Pretreatment Standards - You may note that Attachment VI includes Electroplating standards for both existing (PSES) and new (PSNS) sources. The pretreatment standards for new sources apply only to electroplating facilities which began their operation after August 31, 1982. It is our understanding that your firm is an existing source and therefore, subject to the corresponding standards. If this assumption is not correct, please use the correct standards and advise us of such.

Your facility is located in the Village of Hempstead and is connected to the sewage collection system owned and operated by the village. Ultimately, this discharge is treated at the County's Bay Park treatment facility. Ordinance 266-1985 requires that you apply for a special permit in addition to the previously mentioned SIU discharge permit. Page AT1-1 of this ordinance may be used for that purpose.

Mr. L. Husslein
Page 3
February 28, 1986

RCRA Requirements - The General Pretreatment Regulations (40 CFR 403.8(f)(2)(iii)) require that we notify you of any applicable Resource Conservation and Recovery Act (RCRA) requirements. In general, you are subject to RCRA requirements if you handle hazardous waste. The first step in determining for yourself if RCRA applies to you is to determine if by-products of your processes are hazardous waste in accordance with 40 CFR Part 261 (copy attached). Basically, hazardous waste can be either listed or unlisted (characteristic). Listed hazardous wastes are predefined as hazardous because they are by-products of a specific process or contain specific chemicals. Electroplating sludges, or wastes containing 1,1,1 trichloroethane, are examples of predefined or listed hazardous wastes. Listed wastes can be found in Part 261, Subpart D. Unlisted hazardous wastes are not listed specifically in Part 261, but exhibit characteristics of ignitability, corrosivity, reactivity or EP toxicity as defined in Part 261, Subpart C.

Although the requirements for small quantity generators are different, it is generally true that if you treat, store or dispose of hazardous wastes you need an EPA hazardous waste ID number and both federal and state permits. To obtain the ID number, you must call US EPA Region II - Permits Administration Branch (212) 264-9880. Further, transporters of any type of industrial waste must be permitted under NYCRR Part 360. A summary of the proposed New York State Regulations is attached. If you think you may be subject to RCRA regulations, it is your duty to find out. Specific questions should be addressed to the New York State Department of Environmental Conservation - Regional Solid Waste Engineer, Mr. Robert Becherer at (516) 751-7900.

Permit Application - The enclosed permit application (Form IPP 410) has been partially filled out with certain information already existing in our files. Please review this information and change or correct it as necessary. If certain material was previously submitted during our industrial survey, please reference this fact. It will not be necessary to resubmit this information. In addition, if more room is necessary to fill out a particular item, additional sheets may be attached. The completed permit application must be signed by an authorized representative of your organization and certified by a qualified professional. Please see page 12 of Form IPP 410.

Mr. L. Husslein
Page 4
February 28, 1986

The completed permit application must be submitted within forty-five (45) calendar days after receipt of this letter to:

*Mail completed
appl. to* →

Mr. John F. Caruso
Deputy Commissioner of Public Works
Nassau County Department of Public Works
1 West Street - Room 125
Mineola, NY 11501

It is suggested that your completed permit application be returned by certified mail (return receipt requested) or delivered in person, to provide proof of its submission. Additionally, it is recommended that you maintain a copy of the submittal in your files.

If you have any questions concerning this permit process or industrial pretreatment in general, please feel free to contact Deputy Commissioner John F. Caruso at (516) 535-3911. In addition, Mr. Gavin L. Lindner, PE, Chief of the Industrial Waste Control Section may be contacted at (516) 535-4157.

Very truly yours,

Ludwig C. Hasl

fr- Ludwig C. Hasl, PE
Commissioner of Public Works

LCH:GLL:as
Enclosure with six(6) attachments

cc: Paul J. Molinari, US EPA - Region II
Joseph F. Kelleher, NYSDEC - Albany
Alex Mizikov, NYSDEC - Stony Brook
Superintendent of Public Works - Hempstead
John F. Caruso, Deputy Commissioner



COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
MINEOLA, NEW YORK 11501

April 2, 1986

Mr. Ludwig Husslein
President
Husslein Plating Corp.
495 Peninsula Boulevard
Hempstead, NY 11550

Re: Industrial Pretreatment Program
Application for Discharge Permit
Husslein Plating Corp.
ID# 22109903

Dear Sir:

Recently, your firm received a letter from Commissioner Hasl outlining the requirements for a discharge permit. Included with this letter was a permit application (IPP 410). It has come to our attention that there is an error on two(2) pages of this form. At the top of pages 10 and 11 there is a column heading entitled "SUSPECT KNOWN". This is in error. It should read "SUSPECT ABSENT", as on pages 8 and 9. Attached are two new pages 10 and 11. Please replace the original pages with these two when you return your completed application.

I regret any inconvenience or confusion that this mislabelling may have caused. If you have any questions concerning the above, please feel free to call me or Miss Margaret Finneran, Project Engineer at (516) 535-4157.

Very truly yours,

Gavin L. Lindner
Gavin L. Lindner, PE
Project Manager

GLL:as
Attachment

① Complete page 7 (D. 2)
see note on copy

② Type in info on page 12
section 2 - AUTHORIZED REP.
and have Jon sign

NASSAU COUNTY
DEPARTMENT OF PUBLIC WORKS

APPLICATION FOR A PERMIT TO DISPOSE OF INDUSTRIAL WASTES BY
SIGNIFICANT INDUSTRIAL USERS INTO NASSAU COUNTY POTW

[Reference Nassau County Sewer Ordinance 266-1985 and 40 CFR 403 in
particular 40 CFR 403.12 - Copies Attached]

IPP ID#: 22109903

PART 1. BASELINE MONITORING REPORT [DMR]

A. IDENTIFYING INFORMATION

1. Company Name: Husslein Plating Corp.

2. Headquarter Address: 495 Peninsula Boulevard
Hempstead NY 11550

3. Facility Address: 48 Sewell Street
Hempstead NY 11550

4. Name and Title of
Signing Official: Ludwig Husslein
President

Telephone: 516-481-6158

5. Alternate Person to Contact
Concerning Information
Provided Herein: Ludwig Husslein
President

Telephone: 516-481-6158

6. Name and Title of Person
Completing the Application:

①
Ludwig Husslein
PRESIDENT

IPP 410 (12/85)

Dear Jon
Look this over - make
changes or comments or corrections
get info on permits, etc, if any
and MAKE

C. DESCRIPTION OF OPERATIONS (cont'd)

4. Check all additional activities and indicate SIC No(s)_, if known, at your facility:

	SIC Number		SIC Number
<input checked="" type="checkbox"/> Electroplating	(3420)	<input type="checkbox"/> Photo Processing	(_____)
<input type="checkbox"/> Flammables, Explosives	(_____)	<input type="checkbox"/> Plastics Processing	(_____)
<input type="checkbox"/> Food Preparation Service	(_____)	<input type="checkbox"/> Printing	(_____)
<input type="checkbox"/> Laboratory	(_____)	<input type="checkbox"/> Repair Shop, Garage	(_____)
<input type="checkbox"/> Laundry, Cleaning	(_____)	<input type="checkbox"/> Research	(_____)
<input type="checkbox"/> Machine Shop	(_____)	<input type="checkbox"/> Rubber Processing	(_____)
<input type="checkbox"/> Medical Care	(_____)	<input type="checkbox"/> Power Generation	(_____)
<input checked="" type="checkbox"/> Painting, Finishing	(3411)	<input checked="" type="checkbox"/> Warehousing	(_____)
<input type="checkbox"/> Paint or Ink Formulation	(_____)	<input type="checkbox"/> Other(specify)	(_____)
		_____	(_____)
		_____	(_____)

5. Attach schematic process diagram(s) which indicate(s) all points of discharge to the POTW from any industrial process(es). In this diagram also include any and all non-industrial flows such as sanitary, boiler blowdown, etc. Include site plans, floor plans, mechanical and plumbing plans and details to show all sewers, sewer connections, and appurtenances by the size, location and elevation. Suggested minimum scale: 1"=50'.

SCHEMATICS ATTACHED

needed

D. FLOW MEASUREMENT

1. List average daily and 3 minute peak wastewater flow rates, in gallons per day, including daily, monthly and seasonal variations from all wastestreams listed in C.5 above, on an individual basis:

SANITARY USE 600 gpd
 PLATING DEPT. RINSES - 9,000 gpd
 DETERGENT DUMPS 100 gpd
 EVAPORATION ~~WATER~~ - 300/500 gpd
 BOILER MAKE-UP - 300/500 gpd
 3 MINUTE PEAK = 10 GPM

2. List time to the nearest hour and duration of flows described above:

SANITARY 6-3
 PLATING 6-2
 DETERGENT 2-3
 EVAPOR 24 HOURS 8HRS (TANKS COVERED WHEN IN USE)
 BOILER 24 HOURS 8HRS FOR 6 MOS YR.
 IPP 410 (1/7/85)

LOW,

③

Need These

① COPY OF PROPERTY SURVEY ✓
 OR, DIAGRAM OF PROPERTY

c. MEASUREMENT OF POLLUTANTS [Reference 40 CFR 403.12(b)(5)]

1. List all pertinent wastewater constituents and characteristics as determined by a reliable analytical laboratory. Sampling and analysis shall be performed in accordance with the procedures established by the EPA pursuant to Section 304(g) of the Act and contained in 40 CFR Part 136 as amended:

(All units are in mg/l, except pH and temperature which are in standard units and degrees Celsius respectively.)

1. pH: 11.9 4. BOD: _____
 2. Temp.(C): _____ 5. COD: _____
 3. Oil & Grease: _____ 6. TDS: _____
 7. TSS: _____

Parameter	Daily Maximum Concentration (mg/l)	Daily Average Concentration (mg/l)
Cadmium	_____	_____
• Chromium, Hex	_____	<u>0.46</u>
• Chromium, Tot	_____	<u>1.9</u>
Copper	_____	_____
• Iron	_____	<u>0.56</u>
Lead	_____	_____
Mercury	_____	_____
• Nickel	_____	<u>0.55</u>
Zinc	_____	_____
Arsenic	_____	_____
Available Chlorine	_____	_____
Cyanide, Total	_____	_____
Selenium	_____	_____
Sulfide	_____	_____
Barium	_____	_____

IPP 410 (12/85)

(4)
 Info from lab results

2. MEASUREMENT OF POLLUTANTS (cont'd)

Parameter	Daily Maximum Concentration (mg/l)	Daily Average Concentration (mg/l)
Manganese	-----	-----
Ammonia Nitrogen	-----	-----
Gold	-----	-----
Silver	-----	-----
Fluorides	-----	-----
Antimony	-----	-----

- If you have received an Attachment VI, this indicates that our records reflect that your firm is subject to Promulgated Categorical Pretreatment Standards. We have included all applicable federally mandated standards. This will involve additional testing (above that specified in E.1). This testing must be done in accordance with the regulations previously referenced. All results obtained are to be returned with this application.

F. CERTIFICATION

- A statement, reviewed by an authorized representative of the Industrial User and certified by a qualified professional must be submitted. The certification should indicate whether Pretreatment Standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O & M) and/or additional pretreatment is required for the Industrial User to meet the Pretreatment Standards and Requirements. See Attachment IV.

G. COMPLIANCE SCHEDULE

- If your firm is not in compliance with federal or local standards, you must submit a schedule indicating when and how your firm will achieve compliance. This schedule must indicate dates for the completion of major events leading to the construction and operation of additional pretreatment required to meet the applicable pretreatment standard(s), (e.g., hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, etc.) No activity shall exceed a period of 9 months and the total compliance period shall not exceed a period of 18 months.
[Reference Ordinance No. 266-1985, Section 7.2.9]

E. SEWER AND PERMIT INFORMATION

1. If your firm has ever submitted EPA Form 8700-12, or if your firm generates any residual waste(s) please complete the following:

No Residuals

Type of Waste	Amount/Year	Method of Disposal
---------------	-------------	--------------------

F. WASTEWATER CHARACTERISTIC INFORMATION

1. Priority Pollutant Information: Please indicate by placing an "x" in the appropriate box by each listed chemical whether it is "Suspected to be Absent," "Known to be Absent," "Suspected to be Present," or "Known to be Present" in your manufacturing or service activity or generated as a by-product. Some compounds may be known by other names. Please refer to Attachment V for those compounds which have an asterisk (*).

ITEM NO.	CHEMICAL (COMPOUND)	SUSPECT ABSENT	KNOWN ABSENT	SUSPECT PRESENT	KNOWN PRESENT
1.	asbestos(fibrous)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	cyanide(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	antimony(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	arsenic(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	beryllium(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	cadmium(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	chromium(total)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.	copper(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	lead(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	mercury(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	nickel(total)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12.	selenium(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	silver(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	thallium(total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8

IPP 410 (

Have you had any waste removed in last 12 months?

ITEM NO.	CHEMICAL COMPOUND	SUSPECT ABSENT	KNOWN ABSENT	SUSPECT PRESENT	KNOWN PRESENT
15.	zinc (total)	[X]	[]	[]	[]
16.	acenaphthene	[X]	[]	[]	[]
17.	acenaphthylene	[X]	[]	[]	[]
18.	acrolein	[X]	[]	[]	[]
19.	acrylonitrile	[X]	[]	[]	[]
20.	aldrin	[X]	[]	[]	[]
21.	anthracene	[X]	[]	[]	[]
22.	benzene	[X]	[]	[]	[]
23.	benzidine	[X]	[]	[]	[]
24.	benzo(a)anthracene*	[X]	[]	[]	[]
25.	benzo(a)pyrene*	[X]	[]	[]	[]
26.	benzo(b)fluoranthene	[X]	[]	[]	[]
27.	benzo(g,h,i)perylene*	[X]	[]	[]	[]
28.	benzo(k)fluoranthene*	[X]	[]	[]	[]
29.	a-BHC(alpha)	[X]	[]	[]	[]
30.	b-BHC(beta)	[X]	[]	[]	[]
31.	d-BHC(delta)	[X]	[]	[]	[]
32.	g-BHC*(gamma)	[X]	[]	[]	[]
33.	bis(2-chloroethyl)ether*	[X]	[]	[]	[]
34.	bis(2-chloroethoxy)methane*	[X]	[]	[]	[]
35.	bis(2-chloroisopropyl)ether*	[X]	[]	[]	[]
36.	bis(chloromethyl)ether*	[X]	[]	[]	[]
37.	bis(2-ethylhexyl)phthalate*	[X]	[]	[]	[]
38.	bromodichloromethane*	[X]	[]	[]	[]
39.	bromoform*	[X]	[]	[]	[]
40.	bromomethane*	[X]	[]	[]	[]
41.	4-bromophenylphenyl ether	[X]	[]	[]	[]
42.	butylbenzyl phthalate	[X]	[]	[]	[]
43.	carbon tetrachloride*	[X]	[]	[]	[]
44.	chlordane	[X]	[]	[]	[]
45.	4-chloro-3-methylphenol*	[X]	[]	[]	[]
46.	chlorobenzene	[X]	[]	[]	[]
47.	chloroethane*	[X]	[]	[]	[]
48.	2-chloroethylvinyl ether	[X]	[]	[]	[]
49.	chloroform*	[X]	[]	[]	[]
50.	chloromethane*	[X]	[]	[]	[]
51.	2-chloronaphthalene	[X]	[]	[]	[]
52.	2-chlorophenol*	[X]	[]	[]	[]
53.	4-chlorophenylphenyl ether	[X]	[]	[]	[]
54.	chrysene*	[X]	[]	[]	[]
55.	4,4'-DDE*	[X]	[]	[]	[]
56.	4,4'-DDE*	[X]	[]	[]	[]
57.	4,4'-DDT*	[X]	[]	[]	[]
58.	dibenzo(a,h)anthracene*	[X]	[]	[]	[]
59.	dibromochloromethane*	[X]	[]	[]	[]
60.	1,2-dichlorobenzene*	[X]	[]	[]	[]
61.	1,3-dichlorobenzene*	[X]	[]	[]	[]
62.	1,4-dichlorobenzene*	[X]	[]	[]	[]
63.	3,3'-dichlorobenzidine	[X]	[]	[]	[]

IPP 410 (12/85)

(9)

OK

(V) appropriate column
based on your knowledge
Everything is --

ITEM NO.	CHEMICAL COMPOUND	SUSPECT KNOWN ABSENT	KNOWN ABSENT	SUSPECT PRESENT	KNOWN PRESENT
64.	dichlorodifluoromethane*	[X]	[]	[]	[]
65.	1,1-dichloroethane*	[X]	[]	[]	[]
66.	1,2-dichloroethane*	[X]	[]	[]	[]
67.	1,1-dichloroethene*	[X]	[]	[]	[]
68.	trans-1,2-dichloroethene*	[X]	[]	[]	[]
69.	2,4-dichlorophenol	[X]	[]	[]	[]
70.	1,2-dichloropropane*	[X]	[]	[]	[]
71.	(cis & trans) 1,3-dichloropropene*	[X]	[]	[]	[]
72.	dieldrin	[X]	[]	[]	[]
73.	diethyl phthalate*	[X]	[]	[]	[]
74.	2,4-dimethylphenol*	[X]	[]	[]	[]
75.	dimethyl phthalate	[X]	[]	[]	[]
76.	di-n-butyl phthalate	[X]	[]	[]	[]
77.	di-n-octyl phthalate*	[X]	[]	[]	[]
78.	4,6-dinitro-2-methylphenol*	[X]	[]	[]	[]
79.	2,4-dinitrophenol	[X]	[]	[]	[]
80.	2,4-dinitrotoluene	[X]	[]	[]	[]
81.	2,6-dinitrotoluene	[X]	[]	[]	[]
82.	1,2-diphenylhydrazine*	[X]	[]	[]	[]
83.	endosulfan I*	[X]	[]	[]	[]
84.	endosulfan II*	[X]	[]	[]	[]
85.	endosulfan sulfate	[X]	[]	[]	[]
86.	endrin	[X]	[]	[]	[]
87.	endrin aldehyde	[X]	[]	[]	[]
88.	ethylbenzene	[X]	[]	[]	[]
89.	fluoranthene	[X]	[]	[]	[]
90.	fluorene*	[X]	[]	[]	[]
91.	heptachlor	[X]	[]	[]	[]
92.	heptachlor epoxide	[X]	[]	[]	[]
93.	hexachlorobenzene*	[X]	[]	[]	[]
94.	hexachlorobutadiene	[X]	[]	[]	[]
95.	hexachlorocyclopentadiene*	[X]	[]	[]	[]
96.	hexachloroethane*	[X]	[]	[]	[]
97.	indeno(1,2,3-cd)pyrene*	[X]	[]	[]	[]
98.	isophorone*	[X]	[]	[]	[]
99.	methylene chloride*	[X]	[]	[]	[]
100.	naphthalene	[X]	[]	[]	[]
101.	nitrobenzene	[X]	[]	[]	[]
102.	2-nitrophenol*	[X]	[]	[]	[]
103.	4-nitrophenol*	[X]	[]	[]	[]
104.	N-nitrosodimethylamine*	[X]	[]	[]	[]
105.	N-nitrosodi-n-propylamine*	[X]	[]	[]	[]
106.	N-nitrosodiphenylamine*	[X]	[]	[]	[]
107.	PCB-1016*	[X]	[]	[]	[]
108.	PCB-1221*	[X]	[]	[]	[]
109.	PCB-1232*	[X]	[]	[]	[]
110.	PCB-1242*	[X]	[]	[]	[]
111.	PCB-1248*	[X]	[]	[]	[]

IPP 410 (12/85)

OK

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

LAB NO. C860633

04/10/86

Husslein Auto Body Supplies, Inc.
495 Peninsula Blvd.
Hempstead, NY 11550

ATTN:

20127

SOURCE OF SAMPLE: Same as above

COLLECTED BY: Client

DATE COL'D:

RECEIVED: 03/31/86

SAMPLE: wastewater

ANALYTICAL PARAMETERS

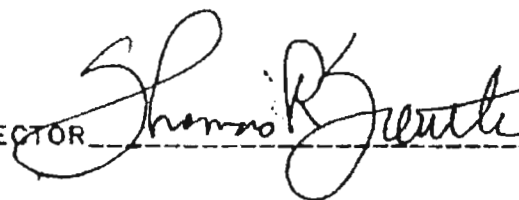
Chromium hex as Cr	mg/L	0.46
Chromium as Cr	mg/L	1.9
Iron as Fe	mg/L	0.56
Nickel as Ni	mg/L	0.55
pH	units	11.9

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



rn=

1777

NASSAU COUNTY DEPARTMENT OF HEALTH NASSAU COUNTY PUBLIC HEALTH ORDINANCE - ARTICLE XI
 APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
 FORM 1 - GENERAL INFORMATION
 SEE INSTRUCTION SHEET

For Official Use Only
 Facility I.D.

☐ Municipal
☒ Non-Municipal

Check all that apply to your facility: ☒ Tank Storage ☒ Container Storage ☐ Bulk Storage ☐ Storage of Road De-icing Materials

Reason for submitting application: ☒ New ☐ Renewal ☐ Change ☐ Construction

Facility Name HUSSLEIN PLATING CORP.	Street Address 48 SEWELL STREET	Village HEMPSTEAD	State NY	Zip 11550	Phone 481 6158
Facility Mailing Address (If different from above)					
Facility Owner LUDWIG HUSSLEIN JR.	Street Address 93 STILLWATER LANE	Village NISSEQUOGUE	State NY	Zip 11780	Phone 584 7835
Property Owner (If not Facility Owner)	Street Address	Village	State	Zip	Phone
Tank Owner (If not Facility Owner) HUSSLEIN PLATING CORP.	Street Address 48 SEWELL STREET	Village HEMPSTEAD	State NY	Zip 11550	Phone 481 6158

Name that should appear on Permit (Permittee)
 If different from Facility Owner

Permittee's Street Address 48 SEWELL STREET	Village HEMPSTEAD	State NY	Zip 11550	Phone 481 6158
--	----------------------	-------------	--------------	-------------------

Permittee's Relationship to Facility Owner: ☐ Same ☒ Operator of Facility ☐ Other (Specify):

Principal Property Tax Code:	School District No. TOWN OF HEMPSTEAD S.D. - CODE 001	Section 35	Block 638	Lot 21-22-23-24-25-26-27-28
------------------------------	---	---------------	--------------	--------------------------------

Forms Attached ☒ Form 2 - Tank Registration ☒ Form 3 - Bulk & Container Storage Registration ☐ Form 4 - Storage of Road De-icing Materials
 Check all that apply

I hereby affirm under penalty of perjury that the information provided on this form and on any attached forms, statements and exhibits is true to the best of my knowledge and belief.

Print Name	Signature	Title	Date
------------	-----------	-------	------

NASSAU COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 2 - TANK REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only

Date Application Received	Facility I.
Reviewed By	Date Review
Action: <input type="checkbox"/> Not Req'd. <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	No. of Month

Facility Name HUSSLEIN PLATING CORPORATION

Facility Address 48 SEWELL ST., HEMPSTEAD, NEW YORK, N.Y. 11550

Action	Tank Number	Location	Design Capacity (Gallons)	Material of Construction			Material Currently or Last Stored			Status	Tank Installation Date (Month/yr)	Leak Detection Sys.	Secondary Containment	Product Gauge	Dispenser Method	Fill	Additional Information for Abandoned Tanks
				Internal	External	Piping	Type	NCDH Number	Name								
1	1	1	700	1	2	4	2	1	381 KW POWER WASH SOLUTION	1	11/72	5	5	2	3	2	
1	2	1	850	1	2	4	2	1	303 H ELECTROCLEAN SOLUTION	1	11/72	5	5	2	3	2	
1	3	1	700	8	2	4	8	1	WATER	1	3/82	5	5	2	3	2	
1	4	1	700	8	2	4	8	1	WATER	1	3/82	5	5	2	3	2	
1	5	1	700	2	2	3	0	1	SULFURIC ACID SOLUTION	1	7/85	5	5	2	2	2	
1	6	1	700	2	2	4	8	1	WATER	1	11/72	5	5	2	3	2	
1	7	1	1600	4	8	4	8	1	WATER	1	12/85	5	5	2	3	1	
1	8	1	1600	4	8	4	0	1	NICKEL PLATING SOLUTION	1	12/85	5	5	2	2	1	
1	9	1	1600	4	8	4	0	1	NICKEL PLATING SOLUTION	1	12/85	5	5	2	2	1	
1	10	1	700	2	2	4	8	1	WATER RINSE, N. SOLUTION	1	11/72	5	5	2	2	1	
1	11	1	700	2	2	4	8	1	WATER	1	11/72	5	5	2	3	3	
1	12	1	700	1	2	4	8	1	WATER	1	11/72	5	5	2	3	1	
1	13	1	1000	8	1	4	0	1	CHROME PLATING SOLUTION	1	12/76	5	5	2	2	1	

NASSAU COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 2 - TANK REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only

Date Application Received _____ Facility I.D. _____

Reviewed By _____ Date Review _____

Action: ☐ Not Req'd. ☐ Disapproved ☐ Approved ☐ No. of Months _____

Facility Name HUSSLEIN PLATING CORPORATION

Facility Address 48 SEWELL ST., HEMPSTEAD, NEW YORK, N.Y. 11550

Action	Tank Number	Location	Design Capacity (Gallons)	Material of Construction				Material Currently or Last Stored		Status	Tank Installation Date (Month/yr)	Leak Detection Sys.	Product Containment	Dispenser Method	Fill	Additional Information for Abandoned Tanks	
				Internal	External	Protection	Piping	Type	NCDHI Number							Date Last Used (Month/yr)	Condi-
14	1	900	1	1	2	0	1			1	11/72	5	5	2	2	1	
15	1	700	1	2	4	8	1			1	11/72	5	5	2	3	1	
16	1	700	2	1	4	0	1			1	11/72	5	5	2	2	1	
17	1	200	1	2	4	0	1			1	11/72	5	5	2	3	1	
18	1	2200	1	1	2	0	0			2	11/72	5	5	2	2	1	
19	1	800	8	2	4	8	1			1	12/79	5	5	2	3	1	
20	1	800	1	1	2	0	1			1		5	5	2	2		
21	1	50	1	1	2	1	1			1	11/72	5	5	2	2	1	
22	1	50	1	1	2	1	1			1	11/72	5	5	2	2	1	
25	2	1000	9	9	9	9	1			1	12/45	5	5	2	2	1	
30	3	300	1	2	4	0	0			2		5	5	2	0	0	
31	3	250	1	2	4	0	0			2		5	5	2	0	0	
32	3	200	8	2	4	0	0			2		5	5	2	0	0	

NASSAU COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only

Date Application Received _____ Facility I. _____
Reviewed _____ Date Review _____
By _____
Action: ☐ Not Req'd. ☐ Disapproved
☒ Approved

Facility Name HUSSLEIN PLATING CORP.

Facility Address 48 SEWELL STREET, HEMPSTEAD, N.Y. 11550

Action: ☒ Register Existing Area ☐ Add Area ☐ Remove Area ☐ Modify Area ☐ Area No. Sl _____
Location: ☒ Indoors ☐ Outdoors Bulk Storage Max. Quantity Stored: _____ Container Max. No. 10 Max. Vol. 500 Gls
Secondary Containment: ☒ Impervious ☒ Berm/Dike ☒ Roof ☒ Walls ☐ None ☐ Other (Specify):
Construction Material (Check all that Apply): ☒ Concrete ☐ Steel ☐ Other STONE CLAD, PLASTIC FILLER (Specify): POLYESTER FILLER Security ☒ Yes ☐ No

Type	NCDH Number	Material Name	Phys- ical State	Amount Stored		Storage Method	
				Average Quantity	Units	Average Number	Type
		BUTOXYNE 497	1	200	3	1	1
		HYDROCHLORIC ACID	1	110	3	2	1
		NICKEL CHLORIDE LIQUID	1	50	1	1	1
		NICKEL SULFATE LIQUID	1	140	1	3	1
		PROPAGEL ALCHOL	1	50	3	1	2
		SULFURIC ACID DLDM	1	250	3	2	2
		USED FILTER SLEVES, NI	2	100	3	1	1

NASSAU COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only

Date Application Received	Facility I.
Reviewed By	Date Review
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	No. of Months

Facility Name HUSSLEIN PLATING CORP.

Facility Address 48 SEWELL STREET, HEMPSTEAD, NEW YORK, N.Y. 11550

Action: <input checked="" type="checkbox"/> Register Existing Area <input type="checkbox"/> Add Area <input type="checkbox"/> Remove Area <input type="checkbox"/> Modify Area	Area No. S3
Location: <input checked="" type="checkbox"/> Indoors <input type="checkbox"/> Outdoors	Container Max. No. 3 Max. Vol. 3500 Gls
Secondary Containment: <input checked="" type="checkbox"/> Impervious <input type="checkbox"/> Floor/Dike <input type="checkbox"/> Impervious <input type="checkbox"/> Floor/Pad <input checked="" type="checkbox"/> Roof <input checked="" type="checkbox"/> Walls <input type="checkbox"/> Other (Specify):	Floor Drain & Storage Tank <input type="checkbox"/> None <input type="checkbox"/> Other (Specify):
Construction Material (Check all that Apply): <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> Other (Specify):	Security <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Type	NCDH. Number	Material Name	Phys- ical State	Amount Stored		Storage Method	
				Average Quantity	Units	Average Number	Type
1		SODIUM ALLYL SULFONATE 35%	1	500	3	1	1
1		HUS 2A BRITE	1	30	1	1	2
1		HUS 2B BRITE	1	30	1	1	2
1		HYFLO SUPER CEL	2	50	3	1	5
1		SODIUM SACCHARIN	2	100	3	1	2
1			2	0	0	0	0
1		CAUSTIC SODA SOLUTION 50%	1	100	1	3	1
1		HYDROGEN PEROXIDE 50%	1	50	3	1	2
1		SULFURIC ACID DLDM	1	300	3	1	2

FOR OFFICE USE ONLY	Facility I.
cation	

By _____

100

fy Area	Area No.	S4
---------	----------	----

Max. No. 6 Max. Vol. 2700#

Drain & ☐ None ☐ Other ☐ (Specify):
e Tank

	Security	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	----------	--

[illegible]

NASSAU COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION
SEE INSTRUCTION SHEETS

Facility Name	HUSSLEIN PLATING CORP.

Facility Address
48 SEWELL STREET, HEMPSTEAD, N.Y. 11550

[illegible]

For Office Use Only	Facility I.
Date Application Received	
Reviewed	Date Reviewed

Action:	<input type="checkbox"/> Not Req'd.	No. of Months
---------	-------------------------------------	---------------

☐ Approved ☐ Disapproved

fy Area	Area No. S6
I Max.No. 6	Max.Vol. 600\$
Drain & Tank	Other (Specify):
<input type="checkbox"/> None	<input type="checkbox"/> Security
	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

[illegible]

Date Application Received	Facility I.
Reviewed	Date Review

By _____

[illegible]

fy Area		Area No. S7	
Max.No.	Max.No.	Max.Vol.	800 GLS 1500#
3	3	1500	
Drain & e Tank		Other	
None		Security	Yes
			No
(Specify):			
Amount Stored		Storage Method	
Average Quantity	Units	Average Number	Type
0	0	0	0
0	0	0	0
650	3	1	1
200	3	3	5
250	3	1	1
50	1	1	1
500	3	1	2

FOI Office Use Only	
Date Application Received	Facility I.
Reviewed	Date Reviewed

By _____	W- = C-Ment-1
By _____	W- = C-Ment-1

[illegible]

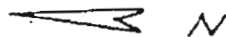
☐ Approved ☐ Disapproved

[illegible]

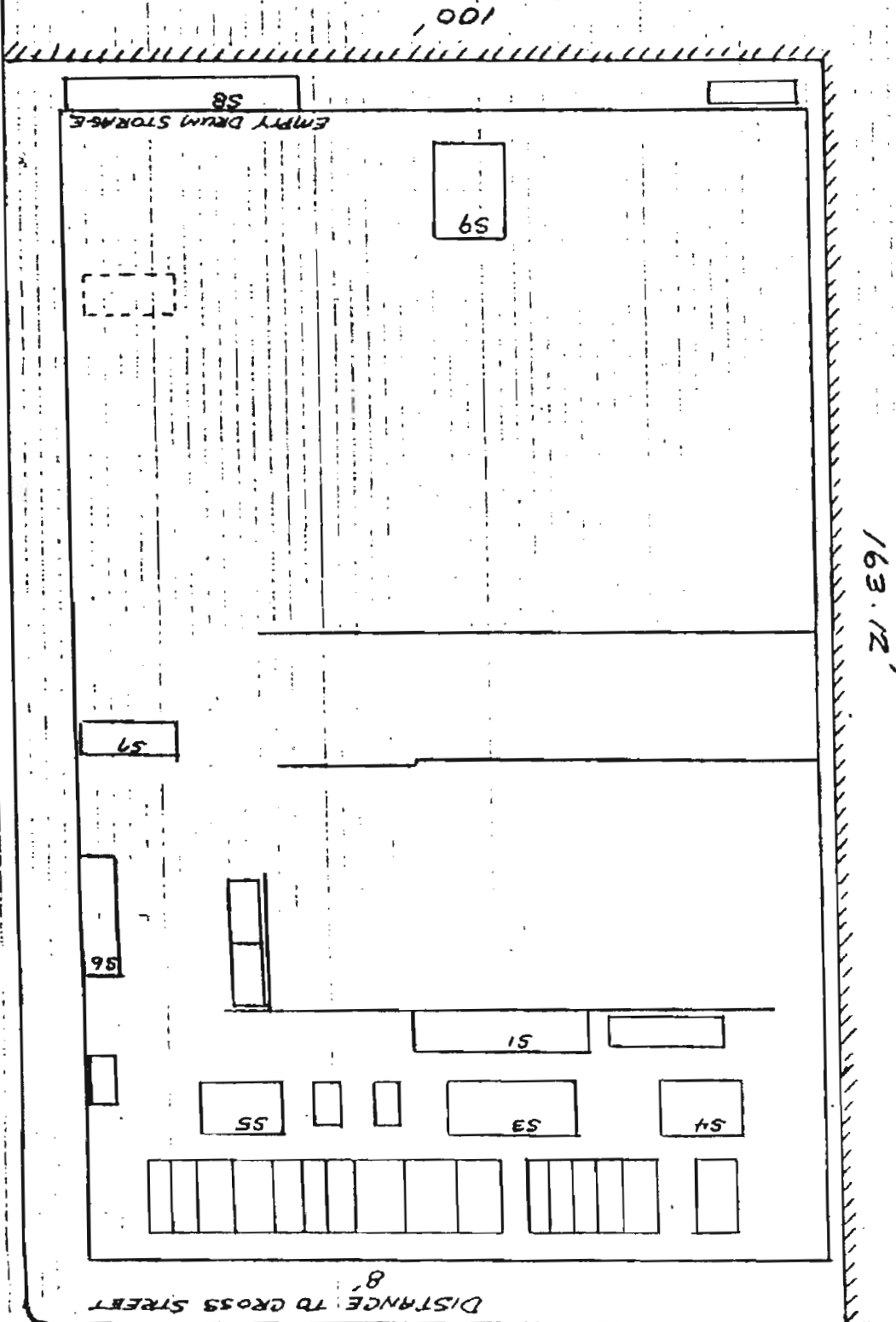
For Office Use Only
Facility I.)

708	U.S.O.	A 106
		Date submitted
		3/9/87
		Page 8 of 8
		<input type="checkbox"/> D.P.

48 SEWELL STREET
HEMPSTEAD, N.Y. 1150



MIRSCHER STREET

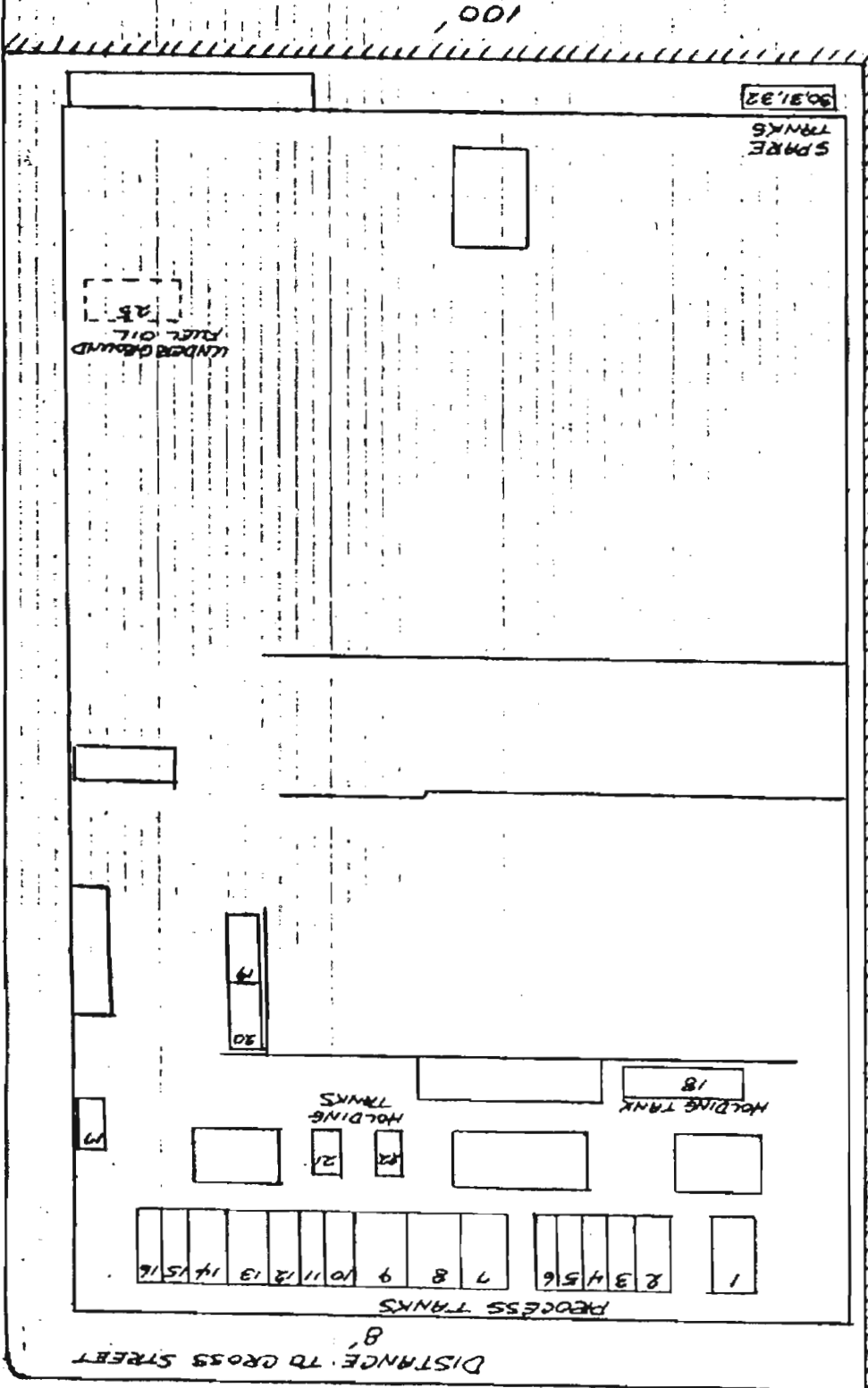


SEWELL STREET

48 SEWELL STREET
Hempstead, N.Y. 11500

MIRSCHEL STREET

N



SEWELL STREET

48 SEWELL STREET
HEMPSTEAD, N.Y. 11550

MIRSCHER STREET

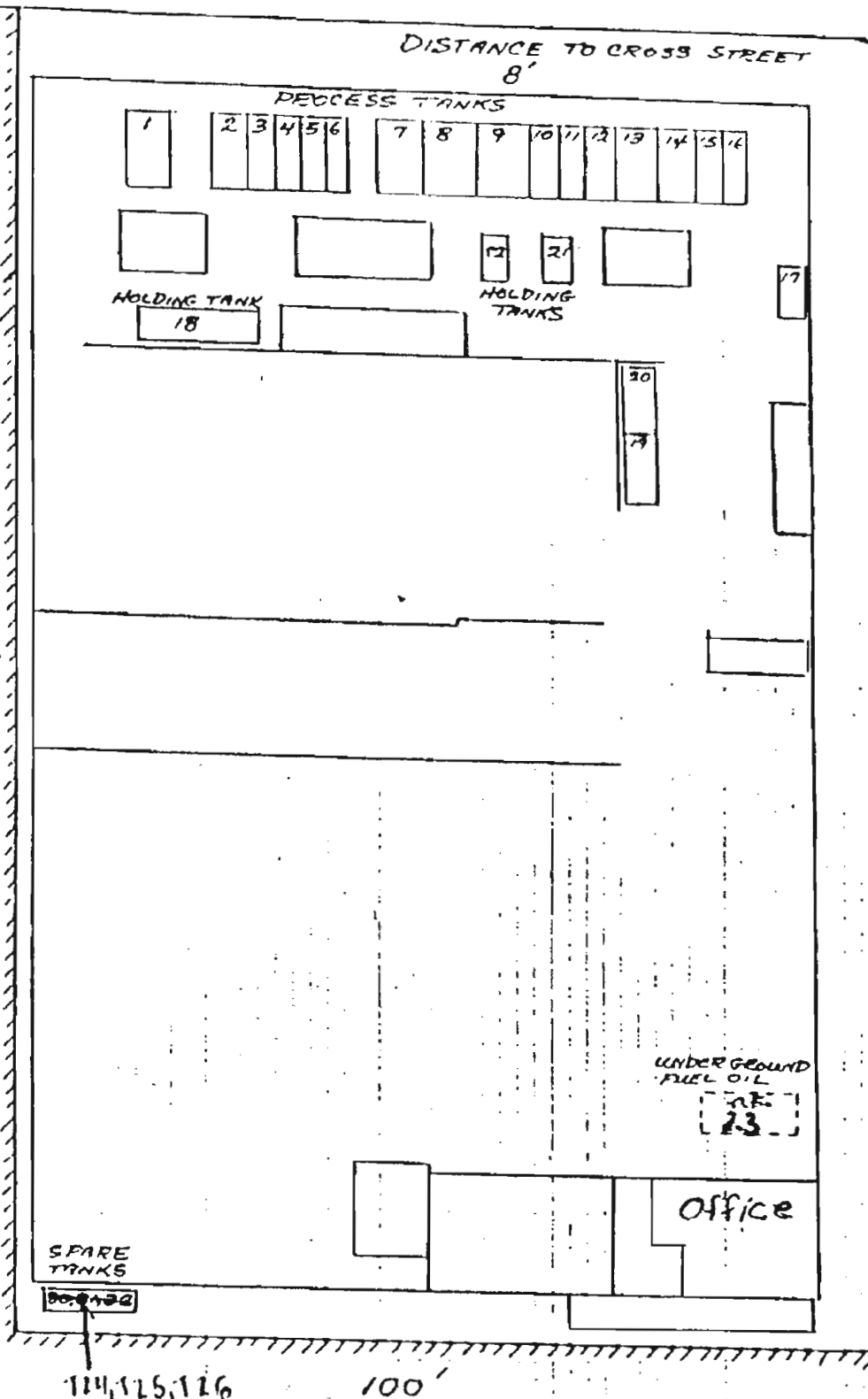
N

RECEIVED

APR 01 1987

NCDH-BLRM

163.12'



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WISCONSIN COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE
FACILITY PERMIT
FORM 2 - TANK REGISTRATION
SEE INSTRUCTION SHEETS

APR 01 1987

NCDH - B L R M

Facility Name HUSSLEIN PLATING CORPORATION

Facility Address 48 SEWELL ST., HEMPSTEAD, NEW YORK, N.Y. 11550

For Office Use Only

Date Application Received	Facility
Reviewed By <i>JS</i>	Date Rec'd <i>9/16/87</i>
Action: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Not Req'd. <input type="checkbox"/> Disapproved	No. of Tanks

Action	Tank Number	Location	Design Capacity (Gallons)	Material of Construction			Material Currently or Last Stored			Status	Tank Installation Date (Month/yr)	Leak Detection Sys.				Product Gauge	Dispenser Method	Fill	Additic Informat for Abanc Tanks
				Internal	External	Piping	Type	NCDH Number	Name			Secondary	Primary	Test	Used				
1	1	700	1	2	4	2	1	9021	381 kW POWER WASH SOLUTION	1	11/72	5	5	2	3	2			
1	2	850	1	2	4	2	1	9021	303 H ELECTROCLEAN SOLUTION	1	11/72	5	5	2	3	2			
1	3	700	8	2	4	8	1	R	WATER	1	3/82	5	5	2	3	2			
1	4	700	8	2	4	8	1	R	WATER	1	3/82	5	5	2	3	2			
1	5	700	2	2	3	0	1	8493	SULFURIC ACID SOLUTION	1	7/85	5	5	2	2	2			
1	6	700	2	2	4	8	1	R	WATER	1	11/72	5	5	2	3	2			
1	7	1600	4	8	4	8	1	R	WATER	1	12/85	5	5	2	3	1			
1	8	1600	4	8	4	0	1	1565 6043	NICKEL PLATING SOLUTION	1	12/85	5	5	2	2	1			
1	9	1600	4	8	4	0	1	1565 6043	NICKEL PLATING SOLUTION	1	12/85	5	5	2	2	1			
1	10	700	2	2	4	8	1	1565 6043	WATER RINSE N. SOLUTION	1	11/72	5	5	2	2	1			
1	11	700	2	2	4	8	1	R	WATER	1	11/72	5	5	2	3	3			
1	12	700	1	2	4	8	1	R	WATER	1	11/72	5	5	2	3	1			
1	13	1000	8	1	4	0	1	2233	CHROME PLATING SOLUTION	1	12/76	5	5	2	2	1			

MASS COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 2 - TANK REGISTRATION
SEE INSTRUCTION SHEETS

Facility Name **HUSSEIN PLATING CORPORATION**

Facility Address **48 SEWELL ST., HEMPSTEAD, NEW YORK, N.Y. 11550**

NCDH - B L R M

Action	Tank Number	Location	Design Capacity (Gallons)	Material of Construction			Material Currently or Last Stored		Status	Tank Installation Date (Month/yr)	Leak Detection Sys. Containment	Product Gauge	Dispenser Method	Fill	Addition Informat for Aband Tanks	Date Last Used (Month/yr)
				Internal	External	Piping	Type	NCDH Number								
1	14	1	900	1	1	2	0	1	1	11/72	5	5	2	2	1	
1	15	1	700	1	2	4	8	1	1	11/72	5	5	2	3	1	
1	16	1	700	2	1	4	8	1	1	11/72	5	5	2	2	1	
1	17	1	200	1	2	4	8	1	1	11/72	5	5	2	3	1	
1	18	1	2200	1	1	2	8	4	2	11/72	5	5	2	2	1	9/81
1	19	1	800	8	2	4	8	1	1	12/79	5	5	2	3	1	
1	20	1	800	1	1	2	8	1	1		5	5	2	2	2	
1	21	1	50	1	1	2	1	1	1	11/72	5	5	2	2	1	
1	22	1	50	1	1	2	1	1	1	11/72	5	5	2	2	1	
1	23	2	1000	9	9	9	4	1	1	12/45	5	5	2	2	1	
1	24	3	300	1	2	4	8	4	2		5	5	2	3	8	9/81
1	25	3	250	1	2	4	8	4	2		5	5	2	3	8	9/81
1	26	3	200	8	2	4	8	4	2		5	5	2	3	8	9/81

RECEIVED

ADAM COUNTY DEPARTMENT OF HEALTH

APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE

FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION

SEE INSTRUCTION SHEETS

Facility Name	WCDH	01	01
HUSSEIN PLATING CORP.			

Facility Address

48 SEWELL STREET, HEMPSTEAD, N.Y. 11550

Action: ☒ Register Existing Area ☐ Add Area ☐ Remove Area ☐ Modify Area ☐ Area No. S1

Location:	<input checked="" type="checkbox"/> Indoors <input type="checkbox"/> Outdoors	Bulk Storage Max.Quantity Stored:
-----------	--	--------------------------------------

Secondary Containment: ☒ Impervious ☒ Imperv Floor/
Berm/Dike

Construction Material (Check all that Apply)

NCDH Number

Material Name

2741 BUTOXYNE 497

HYDROCHLORIC ACID

NICKEL CHLORIDE LIQUID

NICKEL SULFATE LIQUID

PROPAGEL ALCHOL

SULFURIC ACID DLDM

USED FILTER SLEEVES, NI

Nickel and Chrome Sludge

EH 859 4/86

late Submitted

3/3, 187

Page / of 8

□ P.

NEW YORK STATE DEPARTMENT OF HEALTH
 APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
 FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION
 SEE INSTRUCTION SHEETS

Facility Name: **HUSSEIN PLATING CORP.** **NCDH - BLRM**

Facility Address: **48 SEWELL STREET, HEMPSTEAD, NEW YORK, N.Y. 11550**

Date Application Received	Facility
Reviewed	Date Revi
By	
Action:	No. of Mon
<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
<input type="checkbox"/> Not Req'd.	

Action:	<input checked="" type="checkbox"/> Register Existing Area	<input type="checkbox"/> Add Area	<input type="checkbox"/> Remove Area	<input type="checkbox"/> Modify Area	Area No. 5-2
Location:	<input checked="" type="checkbox"/> Indoors	<input type="checkbox"/> Outdoors	Bulk Storage	Container Storage	Max. No. 3 Max. Vol. 3000
Secondary Containment:	<input checked="" type="checkbox"/> Impervious Floor/Dike	<input type="checkbox"/> Impervious Floor/Pad	<input type="checkbox"/> Roof	<input checked="" type="checkbox"/> Walls	<input type="checkbox"/> Floor Drain & Storage Tank
Construction Material (Check all that Apply)	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Steel	<input type="checkbox"/> Other	(Specify):	
of Dike & Pad	Security <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Type	NCDH Number	Material Name	Physical State	Amount Stored		Storage Method	
				Average Quantity	Units	Average Number	
1	12763	SODIUM ALLYL SULFONATE 35%	1	500	3	1	
1	9021	HUS 2A BRITE	1	30	1	1	
1	9021	HUS 2B BRITE	1	30	1	1	
1	9021	HYFLO SUPER CEL	2	50	3	1	
1	10671	SODIUM SACCHARIN	2	100	3	1	
1			2	0	0	0	
1	8153	CAUSTIC SODA SOLUTION 50%	1	100	1	3	
1	4483	HYDROGEN PEROXIDE 50%	1	50	3	1	
1	8493	SULFURIC ACID DLDM	1	300	3	1	

Date Application Received	Facility
Reviewed	Date Reviewed
By	No. of Months
Action: <input type="checkbox"/> Not Req'd.	
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	

Action:	<input type="checkbox"/> Not Req'd.	No. of Mor
<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	

Action:	<input type="checkbox"/> Not Req'd.	No. of Mor
<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	

fy Area	Area No.	64	S3
I	Max.No.	6	Max.Vol. 2700#
Drain & e Tank	<input type="checkbox"/> None <input type="checkbox"/> Other	(Specify):	
	Security	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

[illegible][illegible]

Received
11/11/2011

APR 01 1987

Facility Name	HUSSEIN PLATING CORP.

Facility Address
48 SEWELL STREET, HEMPSTEAD, NEW YORK, N.Y. 11550
NCDH--BLRM

Action: <input checked="" type="checkbox"/> Register Existing Area <input type="checkbox"/> Add Area <input type="checkbox"/> Remove Area <input type="checkbox"/> Modify Area Area No. 86 \$5		
Location: <input checked="" type="checkbox"/> Indoors <input type="checkbox"/> Outdoors	Bulk Storage Max. Quantity Stored:	Container Storage Max. No. 6 Max. Vol. 600 \$
Secondary Containment: <input checked="" type="checkbox"/> Impervious <input checked="" type="checkbox"/> Floor/Pad <input checked="" type="checkbox"/> Roof <input checked="" type="checkbox"/> Walls <input type="checkbox"/> Floor Drain & Storage Tank <input type="checkbox"/> None <input type="checkbox"/> Other (Specify):		
Construction Material (Check all that Apply): <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> Other (Specify):		
of Dike & Pad Security <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

[illegible]

Date Application Received	Facility I.I.
Reviewed	Date Review

By	No. of Months
Action:	<input type="checkbox"/> Not Req'd.

☐ Approved ☐ Disapproved

[illegible]

APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION APR 01 1987
SEE INSTRUCTION SHEETS

Date Application Received

Date Reviewed

NCDH - B.L.R.M

Facility Name: HUSSEIN PLATING CORP.

Facility Address

48 SEWELL STREET, HEMPSTEAD, N.Y. 11550

tion: ☒ Register Existing Area ☐ Add Area ☐ Remove Area ☐ Modify Area Area No. ~~5-8~~ 5-8

Location:	<input checked="" type="checkbox"/> Indoors	Bulk Storage	Container Storage	Max. No. 40	Max. Vol. Off
	<input type="checkbox"/> Outdoors	Max. Quantity Stored:			

Secondary Containment:

<input checked="" type="checkbox"/> Impervious	<input checked="" type="checkbox"/> Roof	<input checked="" type="checkbox"/> Walls	<input type="checkbox"/> Floor Drain & Storage Tank	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Berm/Dike	<input checked="" type="checkbox"/> Floor/pad			<input type="checkbox"/> None
				(Specify):

Construction Material Dike & Pad	(Check all that Apply)	Concrete <input checked="" type="checkbox"/>	Steel <input type="checkbox"/>	Other (Specify):	Security <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

[illegible]

Date Application Received	Facility I.D.
Reviewed	Date Reviewed

By	No. of Months
Action: <input type="checkbox"/> Not Req'd.	
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	

[illegible]

Company Name Husslein Plating Corp.		SIC (if known) Code 3477
Mailing Address Husslein Plating Corp.		Zip 11550
Principal Name (if different) Sam	Contact Name S. Husslein	Telephone 481-6158
Plant Address 48 Sewell St.	Village Hempstead	Water Distr. Hemp Hill
Principal Business Description Chrome Plating, Recycle Auto Bumpers	No. Employees at this Facility 28	How long in business 10 yrs.

COMPLETE LIST OF CHEMICALS USED (See attached)

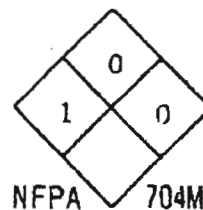
PART III - DISCHARGE INFORMATION

WATER	1. Does your plant discharge liquid wastes to a municipally owned sanitary sewer system? If yes, name of system:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	2. Is your facility permitted to discharge liquid wastes under a State (SPDES) or Federal (NPDES) permit? If yes, enter Permit No.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	3. Do you discharge liquid industrial wastes in any other manner? If yes, explain:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	4. If any of the above are yes: a. Do you discharge process or chemical wastes, i.e., water used in manufacturing including direct contact cooling water and scrubber water? b. Do you discharge non-contact cooling water? c. Do you discharge sanitary wastes?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
AIR	1. Does your facility have sources of possible emissions to the atmosphere?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	2. Enter location and facility code as shown on your Air Pollution Control Application for Permits & Certification (if applicable)	28201131285 01-02	
SOLID & LIQUID WASTE	3. Heating System <input type="checkbox"/> None <input checked="" type="checkbox"/> Boiler <input type="checkbox"/> Space Heater	Type of Fuel <input type="checkbox"/> Electric <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil	Incinerator <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	4. List name and address of firm (incl. yourself) removing wastes other than office and cafeteria refuse (industrial scrap metal)		
	Name American Cesspool Address 258 Cedar Branch St. Middle Island		
	5. List machinery or facilities owned and used by your facility		
SOLID & LIQUID WASTE	6. Does this facility manufacture, produce, formulate or repackage pesticides?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Signature of Owner, President or Officer Gary Husslein		Date 10/22/81
	Printed name of Signatory Gary Husslein		Title Sec. Treas.
	Signature of Auditor Robert R. Tuller		Date of Audit 10/22/81



MATERIAL SAFETY DATA SHEET

(Similar to OSHA Form 20)



M-33-80R

SECTION I

SUPPLIERS NAME	The Harshaw Chemical Company	EMERGENCY TELEPHONE NUMBER	216/721-8300
ADDRESS	1945 E. 97th Street Cleveland, OH 44106	CODE	451-016-18
CHEMICAL NAME	Nickel Sulfate	PRODUCT NAME	Nickel Sulfate, Liquid
CAS No.	7787-81-41	FORMULA	Ni SO ₄ ·6H ₂ O in Solution

SECTION II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL OR COMPONENT	%	THRESHOLD LIMIT VALUE
Ni SO ₄ ·6H ₂ O	45.5%	0.1 mg/m ³ as Ni (ACGIH, 1980)

SECTION III - PHYSICAL DATA

BOILING POINT	N/A	MELTING POINT	N/A
SPECIFIC GRAVITY (H ₂ O=1)	1.3	VAPOR PRESSURE	N/A
AIR DENSITY (Air=1)	N/A	SOLUBILITY IN H ₂ O (% BY WT.)	Completely soluble
% VOLATILES BY VOL.	Ca54	EVAPORATION RATE (BUTYL ACETATE=1)	N/A
APPEARANCE AND ODOR	clear, green liquid; odorless		

SECTION IV - FIRE AND EXPLOSION DATA

Not A Fire Hazard

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II.

EFFECTS OF OVEREXPOSURE

Eyes : Causes irritation.

Skin : Causes irritation and sensitization or allergic skin reactions which may be accentuated by heat and humidity.

Inhalation : Mists cause upper respiratory irritation. Individuals hypersensitive to nickel may develop asthma, bronchitis, shortness of breath, wheezing.

EMERGENCY & FIRST AID PROCEDURES:

Eyes : In case of contact, immediately flush with water for at least 15 minutes. Call a physician.

Skin : In case of contact, immediately wash skin with soap and plenty of water.

Inhalation : Remove to fresh air; if breathing difficult, give oxygen. If not breathing, give artificial respiration and call a physician.

SECTION VI - REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY : None Expected.

INCOMPATIBILITY : None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Soak up with inert absorbant and scoop into container for disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, state, and local laws.

SECTION VIII - PROTECTIVE EQUIPMENT

VENTILATION : Local exhaust ventilation to control any misting.

PERSONAL PROTECTIVE EQUIPMENT:

- 1) An approved respirator, if necessary.
- 2) Gloves.
- 3) Safety glasses; chemical goggles.

SECTION IX - SPECIAL PRECAUTIONS

Avoid contact with eyes, skin, and clothing.
Avoid breathing.
Wash after handling.
Use only with adequate ventilation.

SECTION X - PERSONNEL SAMPLING PROCEDURE

Consult NIOSH Manual of Sampling Data Sheets, 1977 Edition Method S206.

Equipment:

- 1) Calibrated personal sampling pump, 1-2 lpm capacity \pm 5%, w/sample train.
- 2) 37mm 3-piece cassette filter holder w/37mm diameter 0.8um pore size mixed cellulose ester membrane filter and back-up pad.

Procedure:

- Sample size of 90 liters @ 1.5-2.0 lpm.
- Obtain a personal sample by attaching cassette to or near collar.



MATERIAL SAFETY DATA SHEET

7003

Approved by U. S Department of Labor Essentially Similar to Form OSHA-20

MANUFACTURER	Chemtech Industries, Inc.		
ADDRESS	1655 Des Peres Road, P. O. Box 31000, St. Louis, MO 63131		
PRODUCT NAME AND SYNONYMS	Nickel Chloride Solution	TRADE NAME	
PRODUCT FAMILY	Salts	FORMULA	NiCl_2

I. PHYSICAL DATA

BOILING RANGE	N/A	API GRAVITY	
SPECIFIC GRAVITY (d_4^{20})	1.34	POUNDS/GAL	
VAPOR PRESSURE (mm Hg) at 20°C	N/A	VAPOR DENSITY (Air=1)	N/A
SOLUBILITY IN WATER	Complete	SOLUBILITY IN ACID (85% H_2SO_4)	
EVAPORATION RATE (d_4^{20})	N/A	PER CENT VOLATILE BY VOLUME	N/A
APPEARANCE	Clear green liquid	ODOR	odorless
REFRACTIVE INDEX n _D ²⁰		aniline point	

II. HAZARDOUS INGREDIENTS

MATERIAL	VOLUME PER CENT	TLV (Units)

III. FIRE AND EXPLOSION HAZARD DATA

LOWER FLAMMABLE LIMIT AIR (Per Cent by Volume)		D.O.T. CLASSIFICATION	CORROSIVE
FLASH POINT (ASTM Method)	None	FLAMMABILITY CLASSIFICATION	
EXTINGUISHING MEDIA	None		
SPECIAL FIRE FIGHTING PROCEDURES	None		

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	N/A
EFFECTS OF OVEREXPOSURE	Mild skin irritant
EMERGENCY AND FIRST AID PROCEDURES	Flush with water. If swallowed, induce vomiting. If splashed in eyes, rinse thoroughly.

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID		INCOMPATIBILITY (Materials to Avoid)	None
UNSTABLE	STABLE X				
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID		HAZARDOUS DECOMPOSITION PRODUCTS	None
MAY OCCUR	WILL NOT OCCUR				
	X				

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED- OR SPILLED	Flush with water. Use usual clean up procedures.
WASTE DISPOSAL METHOD	Follow local disposal regulations.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)			
VENTILATION	LOCAL EXHAUST		
	MECHANICAL (General)	General Ventilation	
PROTECTIVE GLOVES		Rubber	Eye Protection: Face Shield
OTHER PROTECTIVE EQUIPMENT		Rubber Apron	

PRECAUTIONARY LABELING	Store at moderate temperatures in a closed container.
---------------------------	---

OTHER HANDLING
AND STORAGE
PRECAUTIONS

None

Husslein Plating, Corp.
495 Peninsula Boulevard
Hempstead, New York 11550

0m/A → J.C.
MS. 516-481-6
516-485-5
Fac. l.h. at
48 Seawall St
Hempstead

April 10, 1995

Mr. Michael J. Alarcon, P.E., M.C.E.
Director
Bureau of Environmental Engineering
County of Nassau Department of Health
240 Old Country Road
Mineola, NY 11501-4250

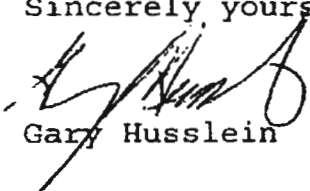
Re: Modification of Aboveground
Storage Tanks or Areas
NCDH Facility ID # 000224

Dear Mr. Alarcon:

Our intentions with regards to tanks and areas will be as follows. Use up existing inventory, than clean and dismantle existing storage tanks and areas in accordance with Section 12 of the Regulations of Article XI.

All waist will be hauled by a licensed Company.

Sincerely yours,


Gary Husslein

100-100000



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85512

many

of the

123

226

Approved: [Signature] Date: [Signature]

1-1-60

Y

1-1-60

1-1-60

1-1-60



OFFICIAL COPY

Fire Alarm Department
75 CLINTON STREET
HEMPSTEAD, NEW YORK 11550

FIRE ALARM REPORT

HEMPSTEAD FIRE ALARM DEPT
VILLAGE OF HEMPSTEAD, N.Y.

INCIDENT # 990441

DATE 4/15/99

BOX#	# ALARMS	TIME REC	FIRE OUT	WEATHER	WIND	TEMP	POLICE	NAME	SHIELD
6	1	1217	1450	CLEAR	MOD	060	751	HUGHES, H.	165

ALARM REC BY	LOCATION	APT #	OFFICER IN CHARGE
B. DERISI	48 SEWELL ST		GEORGE SANDAS, CHIEF OF DEPT.

TYPE OF ALARM	EST DAMAGE	CONTENTS
STRUCTURE FIRE	250,000	0

IF VEHICLE-LICENSE NO	SERIAL NUM	STATE	YEAR	MAKE
-----------------------	------------	-------	------	------

ALARM REPORTED BY	OCCUPANT	OWNER
HPD & MULTIPLE	HUSSEIN BUILDING	
CALLERS		

00000

OFFICERS 17 MEN 078

CAUSE/TYPER OF ALARM GENERAL ALARM

REMARKS: 1217-MULTIPLE CALLERS REPORT A BUILDING FIRE AT LOCATION.
1218-CHIEF CANDIDO REPORTS A WORKING FIRE AT LOCATION. SOUNDED SAME.
1218-CHIEF CANDIDO REQUESTS MUTUAL AID FROM SHPD FOR 1 AMBULANCE; FROM WHPD FOR 1 LADDER, 1 AMBULANCE; FROM UPD 1 LADDER AND AN IMMEDIATE INVESTIGATION FROM N.C. FIRE MARSHALLS OFFICE. NOTIFIED FIRECOM # 48.
1226-CHIEF SANDAS REQUESTS MUTUAL AID FROM WHPD FOR 1 ENGINE TO THE SCENE; FROM UPD FOR 1 ENGINE TO THE SCENE. NOTIFIED FIRECOM #19.
1230-CHIEF SANDAS REQUESTS MUTUAL AID FROM FRANKLIN SQUARE FOR 1 ENGINE NOTIFIED FIRECOM#19 FOR SAME.
1246-FIRE MARSHALL #68-SCHWEITZER ON SCENE.
1258-FIRE MARSHALL# 5-WENK VIA LANDLINE REQUESTS INFORMATION FOR FIRE INVESTIGATION. NOTIFIED CHIEF SANDAS OF SAME.
MUTUAL AID ALSO RECEIVED FROM LAKEVIEW & GARDEN CITY FIRE DEPARTMENTS.
1317-ADDITIONAL FIRE MARSHALLS AND ARSON SQUAD DETECTIVES AT LOCATION.
1353-N.C. DPW PAYLOADER ENROUTE;THIS OFFICE NOTIFIED VIA LANDLINE.
DEPT. EXTINGUISHED THE FIRE USING 160 FEET OF 5 INCH HOSE;1050 FEET OF 3 INCH HOSE; 950 FEET OF 2 1/2 INCH HOSE; 150 FEET OF 1 3/4 INCH HOSE; MULTIPLE TOOLS, LADDERS, DECK GUNS AND 130,000 GALLONS OF WATER.
PARTIAL ROOF COLLAPSE AT SCENE.FIRE MARSHALLS OFFICE REPORTS THE FIRE IS OF SUSPICIOUS ORIGIN; INVESTIGATION PENDING.

OFFICIAL COPY

Fire Alarm Department
75 CLINTON STREET
HEMPSTEAD, NEW YORK 11550

FIRE ALARM REPORT

HEMPSTEAD FIRE ALARM DEPT
VILLAGE OF HEMPSTEAD, N.Y.

INCIDENT # 960484

DATE 5/06/96

BOX#	# ALARMS	TIME REC	FIRE OUT	WEATHER	WIND	TEMP	POLICE	NAME	SHIELD
6	1	1945	2009	CLOUDY	MOD	048	756	MAZZA, P.	96

ALARM REC BY
HENRY LENAHAH

LOCATION
48 SEWELL ST

APT # OFFICER IN CHARGE
M. CAIN, ASST. CHIEF

TYPE OF ALARM
STRUCTURE FIRE

EST DAMAGE CONTENTS
0 0

IF VEHICLE-LICENSE NO SERIAL NUM STATE YEAR MAKE

ALARM REPORTED BY
MIKE GREGORETTO
VIA 911

OCCUPANT
HUSSLER PLATING

OWNER
HUSSLER, LUDWIG
00048 SEWELL ST
HEMPSTEAD NY 11550

00000

OFFICERS 15 MEN 030

CAUSE/TYPE OF ALARM GENERAL ALARM

REMARKS: REPORTED WAREHOUSE FIRE - ROOF FIRE AT LOCATION - DEPARTMENT USED
300 FEET OF 1 3/4 INCH HOSE AND 500 GALLONS OF WATER TO EXTINGUISH
FIRE

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



(516) 444-0320
(516) 444-0373 FAX

REQUEST FOR CLEANUP NOTIFICATION FORM ----FIELD ISSUE

Langdon Marsh
Acting Commissioner

☒ IMMEDIATE CLEANUP REQUIRED

WITHIN 10 DAY PERIOD (Unless otherwise specified, the 10 day period will begin with the above date.)

SPILL #95-07338 SPILL LOCATION: HUFFLEIN PARTS

RESPONSIBLE PARTY INFORMATION:

Address: 48 SEWELL ST., HEMPSTEAD

Telephone:

Contact Person(s): GARY HUFFLEIN

FINDINGS: DUE TO FIRE A PLASTIC VAT BELIEVED TO ^{BE} CONTAINING NICKEL SULFATE AND NICKEL CHLORIDE MELTED SPILLING CONTENTS TO BUILDING FLOOR. ~~OVERFLOW~~ ^{FIRE FIGHTING} DUE TO ~~WATER~~ SOME OVERFLOW TO SOIL & IMMEDIATELY OUTSIDE BAY DOOR.

WORK TO BE PERFORMED: ~~CLEANUP~~ ⁶ REMOVE CONTAMINANT FROM FLOOR ~~IN A PROPER MANNER~~ + DISPOSE OF WASTE IN A PROPER MANNER. REMOVE ALL CONTAMINATED SOIL IN FRONT OF BAY DOOR TO EXTENT POSSIBLE AND DISPOSE OF PROPERLY

This letter serves as notice that you or your company has been directed to proceed with a cleanup of the above referenced site within the time frame indicated. You may either hire a contractor or do the work yourself. However, the contaminated material generated can only be removed from the site with a 364 Permit.

If no response is received by you or a representative from your company within the time frame noted above, this office will proceed with the cleanup of the site, and the New York State Department of Law will seek reimbursement along with an assessment of penalties from you according to Article 12 of the New York State Navigation Law.

Responsible Party/Agent

Date

(Signature acknowledges receipt only)

Spill Response Investigator

Date

(Original copy to RP
Back copy to DEC)

SAMPLE PROGRESS REPORT

Star Creek Water Pollution Plant
Date: 09-15-1995 Time: 11:55:35

Sample I.D. AA02615
Status: Analyses incomplete
Purchase Order Number:
Project account code: IW
Location code: IW
Sample collector: JM

Date collected: 09/15/95
Date submitted: 09/15/95
Due date: 09/29/95
Specification checking: on
Descript: Husslein-Inside Puddle

Analysis	Viol	Result	Unit	Finished Anl
Cadmium, Total	USPC	0.840	mg/l	
Chromium, Total		0.343	mg/l	
Copper, Total	USPC	2.29	mg/l	
Iron, Total	USPC	60.6	mg/l	
Lead, Total	USPC	0.183	mg/l	
Manganese, Total	USPC	3.74	mg/l	
Nickel, Total	USPC	449	mg/l	
Silver, Total		BDL	mg/l	
Zinc, Total	USPC	25.7	mg/l	
Barium, Total		0.112	mg/l	
pH		---		
Volatile Halocarbons		---		
Volatile Aromatics		---		

End of progress report on sample: AA02615

(Puddle in bldg -outside berm area)

[Signature]

SAMPLE PROGRESS REPORT

Cedar Creek Water Pollution Plant

Date: 09-15-1995 Time: 11:55:35

Sample I.D. AA02616

Status: Analyses incomplete

Purchase Order Number:

Project account code: IW

Location code: IW

Sample collector: JM

Date collected: 09/15/95

Date submitted: 09/15/95

Due date: 09/29/95

Specification checking: on

Descript: Husslein-Outside Puddle

NEAR TANKS

Analysis	Viol Result	Unit	Finished Anl
Cadmium, Total	BDL	mg/l	
Chromium, Total	USPC 3.39	mg/l	
Copper, Total	USPC 4.03	mg/l	
Iron, Total	USPC 41.8	mg/l	
Lead, Total	USPC 4.84	mg/l	
Manganese, Total	USPC 22.5	mg/l	
Nickel, Total	USPC 16860	mg/l	
Silver, Total	BDL	mg/l	
Zinc, Total	USPC 96.4	mg/l	
Barium, Total	0.300	mg/l	
pH	---		
Volatile Halocarbons	---		
Volatile Aromatics	---		

End of progress report on sample: AA02616

(INSIDE BERM AREA)

Arnold Hiqueros (Warehouse Owner) after July 1st 1995

NASSAU COUNTY DEPARTMENT OF HEALTH		Facility Name: <u>Husslein Platin Corp</u>		Facility I.D. No.: <u>224</u>	
NASSAU COUNTY PUBLIC HEALTH ORDINANCE - ARTICLE XI		Address: <u>48 Sewell St, Hempstead</u>			
PERMIT COMPLIANCE INSPECTION REPORT		Contact Person: <u>Gary Husslein</u>			
BUREAU OF ENVIRONMENTAL MANAGEMENT		Title:		Phone: <u>484-5550</u>	
ITEM		Date Permit Expires: <u>12/1/97</u>		New [] Renewal []	
A. TANK STORAGE		Yes		No	
1. Leakage/Spill Monitoring Equipment Functioning		[]		[]	
2. Means of Calculating Product Delivery & Use		[]		[]	
C. BULK & CONTAINER STORAGE		Yes		No	
1. Adequate Spill Control & Containment		[]		[]	
2. Proper Segregation of Incompatible Wastes		[]		[]	
3. Bulk Chemicals Stored On Pallets & Under Roof		[]		[]	
4. Storage Area Secure		[]		[]	
5. Proper Stack Size & Adequate Aisles		[]		[]	
6. Containers Off Ground, Capped, Not Leaking		[]		[]	
7. Proper Labels & Notices Posted		[]		[]	
8. Standard Operating Procedures Posted		[]		[]	
D. WASTES - ESTIMATED QUANTITIES ON SITE		[]		[]	
1. Containers		[]		[]	
2. Tanks		[]		[]	
E. FLOOR DRAINS		[]		[]	
F. EMISSION POINTS		[]		[]	
G. OVERALL INSPECTION [] Satisfactory [] Non-Compliance		[]		[]	

2 Chrome Tanks too old filled

- Facility not in operation

- no drums with chemicals or wastes

- BEM sent Chemical Waste Report to Owner & fill out when all waste removed

Signature of Inspector [Signature] Date 1/1/98 Signature of [Signature] Date 1/1/98

LOCATION		Representatives on site		Time arrived	Time departed
Name <u>HUSSEIN PARTS INC.</u>		DEC <u>GIBBONS</u>		<u>07:05</u>	
Address <u>48 SEWELL ST.</u>		NCFM <u>D. LAVORI + GOLDEN</u>		<u>05:20</u>	<u>08:05</u>
Town <u>HEMPSTEAD</u>		GARY <u>HUSSEIN</u>			
Phone <u>485.5550</u>		County <u>NY</u>			
WEATHER		Temperature		Condition	
Humidity <u>Dry</u>		<u>Cold</u>		<u>Sunny</u>	
<u>Fair</u>		<u>Partly Cloudy</u>		<u>Partly Cloudy</u>	
<u>Hot</u>		<u>Rain</u>		<u>Rain</u>	
<u>Very Humid</u>		<u>Snow</u>		<u>Snow</u>	
<u>°C</u>		<u>°F</u>		<u>Other</u>	

DATE	TIME	ENTRIES
9-15-95	07:05	<p>Arrived on site ^{Village of Hemp. F.D.} Departing</p> <ul style="list-style-type: none"> • NCFM <u>D. LAVORI + GOLDEN</u> on site • Gary Hussein son of owner 4951 Peninsula Blvd. Hempstead NY 11550 485.5550 • Owner ^{Building Business} not on site • Lou Hussein 584.3122 93 Stillwater Ln. (also home address for Sto. James NY 11780 Gary H.) • Village of Hemp F.D. received call of fire 02:45 • NCFM requested 05110 on site 05:20 • During fire one 1500 gallon polypropylene vat melted spilling contents • per Hussein this vat contained ~800 gallons of Nickel Chloride Nickel sulfate mix which had been used in plating process and ∴ contained other metals (iron giving it a brown color). • per Hussein ~400 gallons was lost to the floor mixing with the water used to extinguish the fire. • This mixture overflowed a bay door sill on the west side of the building so contaminating the soil just outside the door. • Upon seeing this (prior to DEC arrival) NCFM did door with speedi-dri (3 bags).

- Upon DEC arrival Husslein digging + drumming contaminated soil.
- The remaining product in the vat as well as the liquids on the floor is being pumped to a structurally sound + empty vat till disposal can be arranged.
- Per Husslein floor drains in the building go to Bay Park S.F. at this time they appear clogged as water is puddled in their vicinity. (Neither are in room with vats)
- Cedar Creek called by Husslein. Maurice Osmond will be responding E.T.A. ~09:00 to sample liquids which will potentially discharge to sewer. Husslein instructed not to disturb dig.

08:05 NCFM off site

08:40 Spoke with Bob Becherer w/ SDEC

- per Bob Michel is not on the haz list but waste will have to be treated as contaminated.
- Building has been inspected by Gara in '89.
- Advised Becherer of what appears to be a roof drain coming out of the base of the north side of the building discharging to soil, although per Osmond no flow observed.

08:50 Maurice Osmond on site

- per Osmond pipe out of the north side of bldg to a roof drain.
- ~~floor drain in room just east of vats~~
- floor in room with vats is slanted away from room with floor drain as per their previous inspection.
- Osmond will sample sewer in street as well as waste vat.
- Husslein directed to secure vats + floor (via burning, in the event of rain. All debris will be drummed all liquids will be collected in waste vat - properly disposed of. Floor will be speedi dried + speedi dried drummed. Contaminated soil will be dug out drummed + end pt. sampled.
- Samples obtained by Cedar Creek.

DATE	TIME	ENTRIES
9-15-95	cont'd	<ul style="list-style-type: none"> Ormond expects results today will contact DEC as ASAP. Advised Husslein to proceed as discussed, to call with ques. and that DEC would stop by this afternoon to check progress.
09:55	Departed	
15:00	Tom Norris NCDH notified of situation. Co	
15:53	per Mrs. Husslein taps have been ordered and will be used tonight. Plant is currently being boarded. She understands	

excavated area must remain open for inspection. I explained to her that based on our conversation an inspection this evening will not be necessary

CG

9.15.95

16:15 spoke with Maurice Osmond

Results from samples

	Area near bat	puddle in back	sewer
Nickel	16,860 ppm	449 ppm	OK
Cadmium	<DL	.8 "	
Chromium	3.3 "	.3 "	
Copper	4.0 "	2.2 "	
Iron	41.8 "	60.6 "	
Lead	4.8 "	.1 "	
Manganese	27.5 "	3.7 "	
Silver	<DL	<DL	
Zinc	96.4 "	25.7 "	
Barium	3 "	.1 "	

He will notify Kusler I notified DHR

CG

THOMAS E. GULOTTA
COUNTY EXECUTIVE



KATHLEEN A. GAFFNEY, M.D., M.P.H.
COMMISSIONER

COUNTY OF NASSAU
DEPARTMENT OF HEALTH
240 OLD COUNTRY ROAD
MINEOLA, N.Y. 11501-4250

February 14, 1995

Mr. Gary Husslein
Husslein Plating Corporation
48 Sewell Street
Hempstead, New York 11550

Re: Modification of Aboveground
Storage Tank(s) or Area(s)
NCDH Facility ID # 000224

Dear Mr. Husslein:

Our records indicate that there are aboveground tank(s) and/or storage area(s) at your facility which must be modified or replaced this year to be brought into full compliance with the requirements of Article XI of the Nassau County Public Health Ordinance.

The required upgrading includes, but is not limited to, installation of secondary containment, overfill protection, spill protection, traffic hazard protection and submission of acceptable plans to the Department for review and approval prior to initiation of construction. If a decision is made to remove rather than modify any existing storage tanks or areas, then the removal must be completed in accordance with the requirements of Section 12 of the Regulations of Article XI. Some of the Article XI requirements are enclosed for your review.

A failure to comply with the above by January 1, 1996 is a violation of Section 9.c.3) b) of Article XI and may result in additional action by this Department. If you have any questions, please call your consultant, or call Mr. John Oeckler or Mr. Robert Weitzman at 571-3838. A written response regarding your intentions is requested within 30 days.

Thank you for your cooperation.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "Michael J. Alarcon".

Michael J. Alarcon, P.E., M.C.E.
Director

Bureau of Environmental Engineering

MJA:rc
Enc.
#5228J

HEMPSTEAD, N.Y. 11550

MIRSCHER STREET

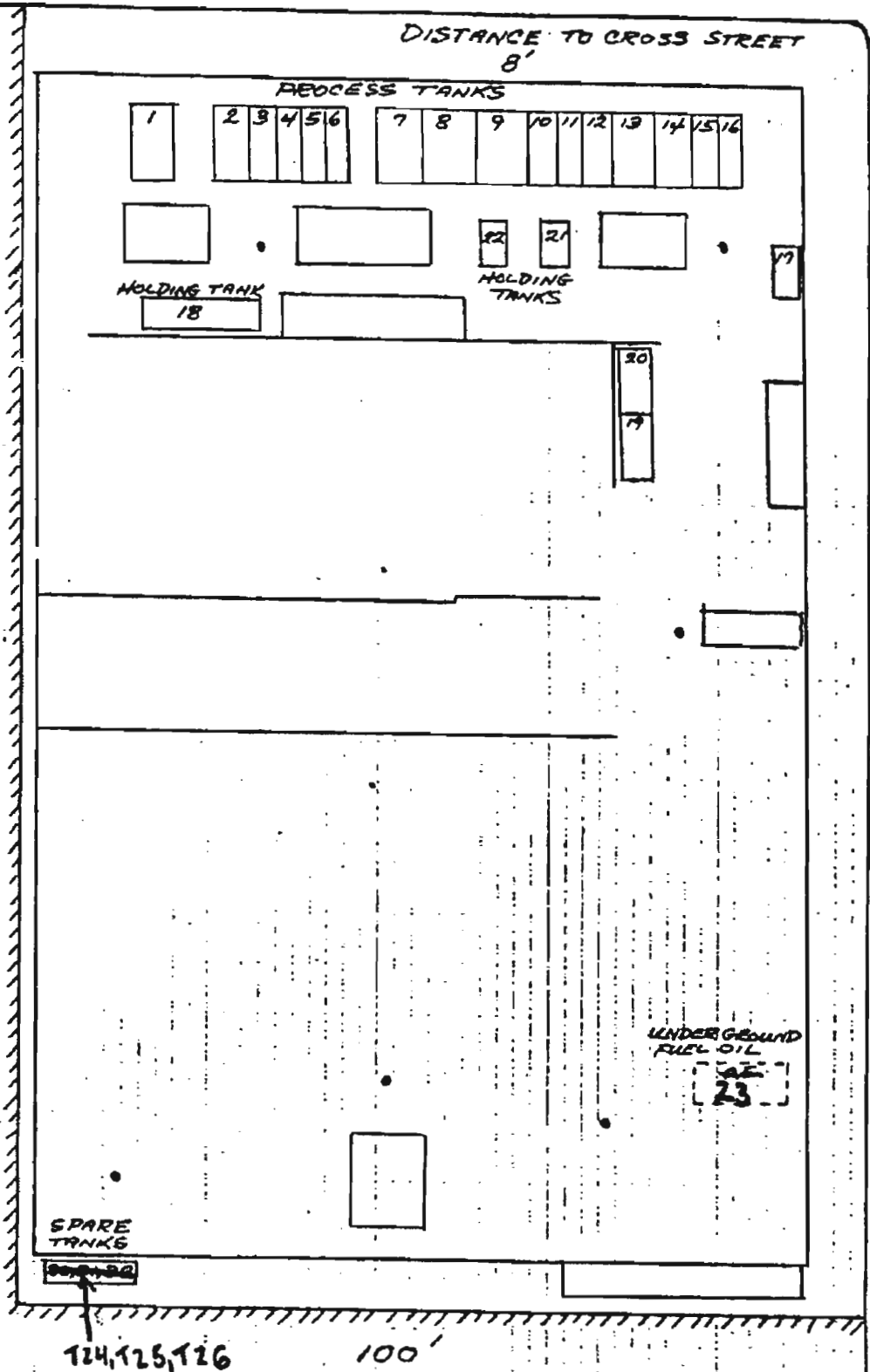


RECEIVED

APR 01 1987

NCDH-BLRM

163.12'



SEWELL STREET

Any M... 4/30

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
TRANSMITTAL SLIP

TO	AJAY SHAH. DHWR	DATE	9.15.95
FROM	CATHY GIBBONS DSM		
RE:	SPILL # 9507338. HUSSEIN PARTS INC. 48 STEWELL ST. HEMPSTEAD. PLEASE BE ADVISED THE EMERGENCY ASPECTS OF THIS SPILL HAVE BEEN HANDLED BY THIS UNIT. THE CLEANUP IS IN PROGRESS AND THE SITE IS BEING REFERRED TO YOUR UNIT TO HANDLE AS YOU SEE FIT. IF YOU HAVE ANY QUES. PLEASE CALL ME AT 4336. THANK YOU		

FOR ACTION AS INDICATED:

- ☒ Please Handle ☐ For Your Information ☐ Comments
- ☐ Approval/Signature ☐ File ☐ Return to me by _____
- ☐ Prepare Reply for _____ Signature _____
- ☐ _____

DEC REGION# 1

HYDRO INITIAL SPILL REPORT FORM

SPILL NUMBER

9507338

SPILL NAME:

DEC LEAD:

CG @ 0600

782-9121

CALLER'S NAME: Imp Robert DilavoreNOTIFIER'S NAME: Chief MaraCALLER'S AGENCY: Nassau Co Fire DeptNOTIFIER'S AGENCY: Hampstead FDCALLER'S PHONE: (516) 689-1917 EXT. thatNOTIFIER'S PHONE: 1 EXT.

SPILL DATE:

9/15/95TIME: 0200 hrs.

CALL RECEIVED DATE:

9/15/95TIME: 0530 hrs.

RECEIVED BY CID#:

255

1. Gasoline
2. #2 Fuel
3. #4 Fuel
4. #6 Fuel
5. Diesel
6. Jet Fuel

7. Waste Oil
8. Non-PCB Oil
9. PCB Oil
10. Kerosene
11. Unk Petrol

Material Spilled

1) Mixed2)3)4)

Mat. Class

Pet-Haz-Other-Unk.Pet-Haz-Other-Unk.Pet-Haz-Other-Unk.Pet-Haz-Other-Unk.

Am't Spilled

unk

Units

Gal - LbsGal - LbsGal - LbsGal - Lbs

Am't Recovered

SPILL LOCATION

PLACE: Hussline PlatingSTREET: 48 Sawall StCITY: Hampstead CO: NassauCONTACT: abovePHONE: (1) EXT.

SPILLER

NAME: STREET: CITY: STATE: ZIP: CONTACT: PHONE: (1) EXT.

SPILL CAUSE

- 1 - Human Error
- 2 - Traffic Accident
- 3 - Equipment Failure
- 4 - Vandalism
- 5 - Tank Test Failure*
- 6 - Housekeeping
- 7 - Deliberate
- 8 - Abandoned Drums
- 9 - Tank Failure
- 10 - Tank Overfill
- 11 - Other Fire
- 12 - Unknown

SPILL SOURCE

- 1 - Gas Station
- 2 - Passenger Vehicle
- 3 - Comm Vehicle
- 4 - Tank Truck
- 5 - Private Dwelling
- 6 - Vessel
- 7 - Railroad Car
- 8 - Major Fac > 400,000 gal
- 9 - Non-Maj Facility > 1,100 gal
- 10 - Comm/Indust
- 11 - Non Comm/Inst
- 12 - Unknown

RESOURCE AFFECTED

- 1 - On Land
- 2 - In Sewer
- 3 - Groundwater
- 4 - Surface Water**
- 5 - Air unk

**Waterbody:

DEC NOTIFIED BY:

- 1 - Responsible Party
- 2 - Affected Persons
- 3 - Police Department
- 4 - Fire Department
- 5 - Tank Tester
- 6 - DEC
- 7 - Citizen
- 8 - Health Dept.
- 9 - Local Agency
- 10 - Federal Gov't
- 11 - Other

CALLER REMARKS: multiple chemicals - large amount
large fire sceneImmediate contact requested. Phone call to caller: Fair

*PBS Number	Tank Number	Tank Size	Test Method	Leak Rate
<u>out. Many chemicals in building. one 500 gallon vat of plating soln. impacted by fire & leaked. other chemicals might also have leaked. 1915 dispatched at 0600</u>				

PRIMARY CONTACT CALLED DATE: <u>9/15/95</u> TIME <u>0549</u> hrs.			REACHED DATE: <u>9/15/95</u> TIME <u>0651</u> hrs.		
SECONDARY CONT. CALLED DATE: <u>1/1/1</u> TIME <u></u> hrs.			FAXED BY CID# <u></u>		
PIN /	T & A	Cost Center	RCS to Central Office <u>1/1</u>		
Status: Active/Closed/Inactive		Last Inspection <u>1/1</u>	Penalty Y / N		
RP-CUI <u>1/1</u>	ENF-INT <u>1/1</u>	INVS-COM <u>1/1</u>	CAP <u>1/1</u>		
UST Trust Eligible Y / N		Site: A B C D E Resp. Party 1 2 3 4 5 6	Reg. Close Date <u>1/1</u>		
EDO Y/N <u></u>		DATA INPUT <u>1/1</u>			

SPILFORM 4a 1/25/95

76

Spill being handled by DEC
CLOSED DATE: 9/27/95

5818:731

New York State Department of Environmental Conservation
Building 40 - SUNY, Stony Brook, New York 11790-2356
Division of Hazardous Waste Remediation
Telephone: (516) 444-0240
Facsimile: (516) 444-0373



Michael D. Zagata
Commissioner

Certified Mail/R.R.R.

September 21, 1995

Gary Husslein
Husslein Plating Corp.
495 Peninsula Blvd.
Hempstead, NY 11550

Re: 9/15/95 Fire
Husslein Plating Corp.

Dear Mr. Husslein:

As you know, I am a member of the New York State Department of Environmental Conservation from the Division of Hazardous Waste Remediation. I am in charge of the follow up investigation of the 9/15/95 fire at your facility. The Department is pleased with your efforts so far regarding your cleanup from this unfortunate affair.

The Department notes that some of the liquids that leaked from the partially melted tank containing a mixture of nickel chloride and nickel sulfate were able to reach the unprotected soils by a bay door sill on the west side of the site. You have properly shovelled the wet soils into drums for eventual off-site disposal. However, we need scientific data to indicate whether a sufficient amount of soils have been removed. Please collect one soil sample from the center of the excavation from the top 3" of soils and have this sample analyzed at a laboratory of your choice. The sample should be analyzed for total nickel and total chromium. We ask that the laboratory you use be NYSDOH ELAP approved. NYSDEC does not recommend any laboratories, but will provide a partial list of the approved laboratories that we know of in your area, if so requested.

The sample will be compared to Eastern USA background levels. For nickel, a concentration of 0.5 parts per million (ppm) to 25 ppm is considered background levels. For chromium, 1.5 ppm - 40 ppm is considered the normal background range. If the requested sample significantly exceeds these levels, an additional soil removal may be requested. If you feel that these

background levels are not the typical background levels in your vicinity, you may collect a background sample from a nearby uncontaminated area. If you decide to collect a background sample, please notify me in advance so we can discuss the location you select.

Additionally, please provide proof of legal disposal of all the waste liquids and waste solids that have been stockpiled on site as a result of the fire, when this proof becomes available.

If you have any questions on the confirmatory soil sample requested by the Department, on what constitutes proof of proper disposal, or on the applicable laws for the proper disposal of wastes, please feel free to contact me at (516) 444-0244.

Sincerely,



Robert Stewart
Environmental Engineer I

cc: A. Shah
C. Gibbons
M. Osmond, NCDPW



NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
CEDAR CREEK WATER POLLUTION CONTROL PLANT

P. O. BOX 88

WANTAGH, NEW YORK 11793

OUR TELEFAX NO. (516) 571-7357

DATE: 9/18 1998

TO:

Cathy Gibbon WSDCC

FROM:

Maurice J. Roman WCDPW

SUBJECT:

Hasslein Hempstead

Fire Incident 9/15/98

NO. OF PAGES (INCLUDING THIS COVER SHEET) 3

MESSAGE:

Trickled solution (gold color) by tanks +
"puddle of water" from fireman adjacent to tanks
recommenced "Hold & Hand"

IF YOU HAVE ANY TROUBLE RECEIVING THIS TELEFAX TRANSMISSION,
PLEASE CALL (516) 571-7344

HEALTH
Continuation Sheet
Nassau County Health Department

Address

48 Sevell St.
~~123456789~~
Hempstead

Dr 100

DATE

COMMENTS

Contact Bob Harkin

9/18/74 - DEC was here Fri. with the
Kath Gibson

Just
#224

- 1 Tank with nickel solution was
damaged - Lost 400 gallons

- Rest of solution was pumped into
another tank.

- BEKm was high level and discharging.

- Pool & all tanks covered to prevent
rain from entering facilities.

- DEC is still deciding how to handle
situation.

- Some samples were taken of puddles &
sent in by NCDPH.

- Some dried liquid outside in side with
facilities.

- Fire started 2:41 AM Fri. - Fire started
by electrical problem?

- Bob Stuart Haz Work DEC 444-0244
is handling case.

- Contact states - he has 2-3000 gal of
chemical on site. When he removes it he will
supply BEKm with necessary work materials.

- Jerry McDonald N.Y. SHL 518-408 6405

- 9-1-

- Contact to call BEKm when he has remaining
chemicals removed

Kathy Gubler PE - ^{reported} \$330

224

Husslein Parts Inc.

48 ~~E~~ Sewell St

Hempstead -

Grosskt - Pennant Blue

Fire - 9/15/95

2:45 PM

one rat ~~to~~ nickel sulfate - lost 400 gallons to
nickel chloride -
to floor drain.

Dec responded 6 AM

contained to bldg - some toxic bay door - pump
liquid into drum -
drain in back of bldg - cedar creek samples

9/18/95 - I called Facility to talk to Gary. He
said he is at (481-6341)

ECOTEST LABORATORIES, INC.

Exhibit: C

ENVIRONMENTAL TESTING

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

LAB NO. C954984

11/02/95

Husslein Plating Corporation
495 Peninsula Boulevard
Hempstead, NY 11550

ATTN: Gary Husslein

SOURCE OF SAMPLE: Spill Site

COLLECTED BY: Client

DATE COL'D: 10/25/95 RECEIVED: 10/26/95

SAMPLE: Soil sample, Center 12'' deep, 9:15

ANALYTICAL PARAMETERS

Nickel as Ni	mg/Kg	540
Chromium as Cr	mg/Kg	17

ANALYTICAL PARAMETERS

11.27.95
per Stewart these levels
are acceptable.
CG

cc:

REMARKS:

DIRECTOR

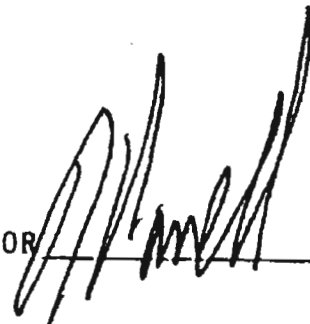


Exhibit: B

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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

LAB NO. C954693/1

10/20/95

Husslein Plating Corporation
495 Peninsula Boulevard
Hempstead, NY 11550

ATTN: Gary Husslein

SOURCE OF SAMPLE: Husslein Plating Corp., Hempstead
COLLECTED BY: Client DATE COL'D: 10/06/95 RECEIVED: 10/09/95

SAMPLE: Soil sample, center top 3'' west side*

ANALYTICAL PARAMETERS

Nickel as Ni	mg/Kg	9500
Chromium as Cr	mg/Kg	59

ANALYTICAL PARAMETERS

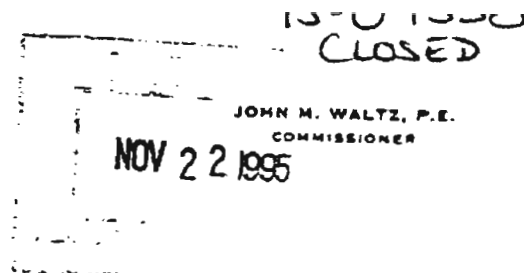
cc:

REMARKS: * Sample was collected at 11:30 am.

DIRECTOR



THOMAS S. GULOTTA
COUNTY EXECUTIVE



COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
MINEOLA, NEW YORK 11501-4822

November 21, 1995

Mr. Robert Stewart
New York State Department of Environmental Conservation
Building 40 - SUNY
Stony Brook, New York 11790-2356

Re: Husslein Plating Corporation - Fire of September 15, 1995

Dear Mr. Stewart:

Pursuant to your letter of September 21, 1995 to Mr. Husslein, soil samples were collected and analyzed. Mr. Husslein has received the completed analytical reports and should be forwarding the information you requested.

Upon receipt of your letter, which I was copied, Mr. Husslein contacted me for guidance and verification of the requested sampling. He had contacted a State approved laboratory (ECO-TEST) for containers and subsequent soil analyses.

I provided assistance to Mr. Husslein, on October 6, 1995, at which time samples were collected from the upper 3 inches in the narrow unprotected soil site adjacent to the bay door and also directly across the street (approximately 100 feet) from the soil beneath the grass area of a tree lined strip on Mirschel Street, perhaps an ambient background.

Subsequently, on October 25, 1995, a second sample of soil was collected from the upper 3 inches in the narrow unprotected soil site adjacent to the bay door. This time we were approximately one foot below grade. The upper portion of soil had been dug-up and placed in drums.

I have enclosed, for your information and assistance, a diagram of the area sampled and some Polaroids of the area adjacent to the bay door which was sampled.

Mr. Robert Stewart

November 21, 1995

Page 2

Re: Husslein Plating Corporation - Fire of September 15, 1995

Mr. Husslein showed me the reports of the total metals analyses. These are not TCLP's, which from an analytical perspective would have provided significantly lower results. However, I would agree that the total metals does provide a clearer view of the situation. As can be noted from the results and scene inspections, the impact was apparently minimal.

If you require any additional information or assistance, please give me a call at 516-571-7352.

Very truly yours,



Maurice J. Osman
Chief Chemist

MJO:sm
enc.

cc: Thomas J. Burke
Richard A. Webber

(516) 586-0333

Invoice:

Permit #

EPA-NYDO82785429

N.Y. D.E.C. 1A-042

N.J. D.E.P. 5371AL

Conn. D.E.P. CTHW 163

Mass. 159

Date: 10/2/78

Customer P.O. #:

Manifest #: 159907

Terms: Net : : Days

Driver: .

QUANTITY	REMOVAL & DISPOSAL	DESCRIPTION	AMOUNT
3300	MIL. 3283-A @ \$2.20 per mil.		7260.-
6	DUMPS 3283-C @ \$169.00 EA		1030.-
1	DUMPS 3283-D @ \$740.00 EA		740.-
450	GAL 3283-B @ \$5.33 per gal.		2400.-
	Transportation 2 loads @ \$2100.00 per load		4200.-
			1070.-
		Tax	57.00
		Total	15770.-

4279

The sum of \$13,776 and 2 Cts

DATE _____

4/3/96

AMOUNT

13,736 15

PAY
TO THE
ORDER

CHEMICAL POLLUTION CONTROL

NON - NEGOTIABLE

AUTHORIZED SIGNATURE

COL 375 : 12201113: 1001 11 2001

Husslein Plating Corp.
495 Peninsula Blvd.
Hempstead, New York 11550

Certified Mail/RRR

November 22, 1995

New York State Department of Environmental Conservation
Building 40 - SUNY, Stony Brook, New York 11790-2356
Division of Hazardous Waste Remediation

Re: Spill #95-07338 Fire 9/15/95

NOV 27 1995

Dear Mr. Strwart:

In response to your letter dated 9/21/95

I called Nassau County Department of Public Works for assistance and their Chief Chemist, Mourice J. Osman came to the sight to observe and verify the enclosed samples for testing. Please review the enclosed items and advise us if our efforts have been sufficient. The impacted area is approximately 45 sqft.

We are process paper work for the proper removal of the remaining solution in our tanks and our next step will be the proper removal of contaminated soil in drums when sufficient soils have been removed.

Exhibit: A Is a background sample taken for our reference only. There are pictures enclosed noting the location of the background sample sight. In your letter you requested advance notice to discuss a location for a background sample, that can be done.

The location was selected because;

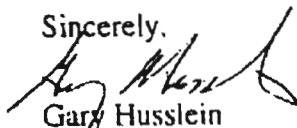
- 1) The most natural sight close to the soil by the bay door.
- 2) Across the street from the sight that should of isolated the area from any possible contamination.
- 3) To my knowledge since 1972 I have never seen any dumping of trash or debris in this area which could lead to contamination.

Exhibit: B Is a sample taken from the soil by the bay door after removal of wet soil. Top 3" at a depth of approximately 4".

Exhibit: C We continued to excavate to approximately 12" from grade level and took this sample.

If you have any questions or recommendations please call me at 516-485-5550.

Sincerely,



Gary Husslein

Enclosure: 4

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 DIVISION OF HAZARDOUS SUBSTANCES REGULATION

Exhibit B

HAZARDOUS WASTE MANIFEST

P.O. Box 12220, Albany, New York 12212

Form Approved OMB No. 2050-0033 Expires 12/31/93

Please print or type. Do not staple.

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA No.	Manifest Document No.	Page 1 of 1	Information in the shaded block is not required by Federal Law
1. Generator's Name and Mailing Address Husslein Plating, Inc. 495 Pineola Blvd., Hempstead, NY 11550		2. Generator's US EPA No. NY 000105275149757		A. State Manifest No. NY B764975 7	
3. Generator's Phone (516) 425-3350		6. US EPA ID Number NY 00054126164		B. Generator's ID 48 Sewall St./ Hempstead, NY 11550	
5. Transporter 1 (Company Name) Freehold Cartage Inc.		8. US EPA ID Number NY 00054126164		C. State Transporter's ID T82052-N	
7. Transporter 2 (Company Name)		10. US EPA ID Number NY 00054126164		D. Transporter's Phone (908) 462-1801	
9. Designated Facility Name and Site Address Chemical Pollution Control Inc. 120 South Fourth Street Bay Shore, NY 11706		12. Containers No. Type 001 T 03300 G		E. State Transporter's ID Same	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number) Waste Corrosive Liquid NOS (D00-) 2 D01700 P011 (Aromatic/Chromic Acids)		13. Total Quantity 001 T 03300 G		F. Transporter's Phone (908) 462-1801	
14. Additional Descriptions for Materials listed Above also D007 1.1 C		15. Special Handling Instructions and Additional Information Emergency Response (516) 586-0333 A) Chrome plating solution 3283-A		16. Facility's Phone (516) 586-0333	
17. Generator's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.		18. Handling Codes for Wastes Listed Above a. <input checked="" type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/>		19. Discrepancy Indication Space	
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name: TIA CRK Signature: <i>[Signature]</i> Mo: 04 Day: 01 Year: 96		21. Transporter 1 (Acknowledgement of Receipt of Materials) Printed/Typed Name: John M. Linker Signature: <i>[Signature]</i> Mo: 04 Day: 01 Year: 96		22. Transporter 2 (Acknowledgement of Receipt of Materials) Printed/Typed Name: Signature: Mo: Day: Year:	



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Division of Waste Management

291 Promenade Street, Providence, RI 02908-5767

(401) 277-2797

018 Exhibit C

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

Form Approved. OMB No. 2050-0039 Expires 3-31-97

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No.	Manifest Document No.	2 Page 1 of 1	Information on this manifest is not required by Federal law. This information is for the use of the receiving facility.	
3. Generator's Name and Mailing Address Husheia Plating, Inc. 495 Peninsula Blvd., Hempstead, NY 11550				A. State Manifest Document Number RI E 0000117		
4. Generator's Phone (516) 485-5550				B. Generator/Site Address 45 Sewall St., Hempstead, NY		
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Transporter ID/License Plate T820TF NJ			
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone (908) 462-1000			
9. Designated Facility Name and Site Address Eticam, 25 Graystone Street, Warwick, RI 02886		10. US EPA ID Number RI D 980906986	E. State Transporter ID/License Plate			
				F. Transporter's Phone		
				G. Facility Mailing Address SAME		
				H. Facility's Phone 401-738-3261		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit (kg, lb)	15. Waste No.	
a. RQ Hazardous Waste Liquid NOS (300.7) 9 RA3082 2011 DOTF 5169			001 TTD 1450		0007	
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above				
a. 32 ³ 8-n		Interim Final Interim Final				
b.		a. Des/Rough				
c.		b.				
d.		c.				
15. Special Handling Instructions and Additional Information		Emergency Response (516) 586-0333				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; or, if I am a small quantity, I have made good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Garry Hershman		Signature Garry Hershman		Date 04/01/96		
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature John M. Lukan		Date 04/01/96		
Printed/Typed Name John M. Lukan		Signature John M. Lukan		Date 04/01/96		
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Date		
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19						
Printed/Typed Name SETH WILKINSON		Signature Seth Wilkinson		Date 04/01/96		

HAZARDOUS WASTE MANIFEST

P.O. Box 12620, Albany, New York 12212

Form Approved OMB No. 2060-0037 Expires 12-31-96

Please print or type. Do not Staple.

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No NY D 0 0 2 0 5 2 7 5 1 6 9 7 6 6		Manifest Document No 6		2. Page 1 of 1		Information in the shaded area is not required by Federal law	
3. Generator's Name and Mailing Address Musalein Plating, Inc. 495 Peninsula Blvd., Hempstead, NY 11550						A. State Manifest No NY B764976 6			
4. Generator's Phone (516) : 485-3550						B. Generator's ID 48 Sewall St. Hempstead, NY 11550			
5. Transporter 1 (Company Name) Chemical Pollution Control Inc.				6. US EPA ID Number NY D 0 8 2 7 8 5 4 2 9		C. State Transporter's ID AK 4673			
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone (516) : 586-0333			
9. Designated Facility Name and Site Address Chemical Pollution Control Inc. 120 South Fourth Street Bay Shore, NY 11706						E. State Facility's ID Same			
10. US EPA ID Number NY D 0 8 2 7 8 5 4 2 9						F. Facility's Phone (516) 586-0333			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total	
a. Hazardous Waste Solid NOS (D007) 9 NA3077 PGIII						006 DM03600		006 DM03600	
b. Hazardous Waste Solid NOS (D007) 9 NA3077 PGIII						001 DF00600		001 DF00600	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above			
a. SOIL w/CHROME SOLID						a. <input checked="" type="checkbox"/> L <input type="checkbox"/> C <input type="checkbox"/> D			
b. CHROME SALTS SOLID						b. <input checked="" type="checkbox"/> L <input type="checkbox"/> C <input type="checkbox"/> D			
15. Special Handling Instructions and Additional Information Emergency Response (516) 586-0333									
A) 3283-C B) 3283-D									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway, according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to public health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Gen. H. H. H.					Signature <i>[Signature]</i>				
17. Transporter 1 (Acknowledgement of Receipt of Materials)					Mo. Day Year 8 30 19 0				
Printed/Typed Name Michael J. Smith					Signature <i>[Signature]</i>				
18. Transporter 2 (Acknowledgement of Receipt of Materials)					Mo. Day Year 0 4 0 1 9 0				
Printed/Typed Name					Signature				
19. Discrepancy Indication Space									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name IMMARR					Signature <i>[Signature]</i>				
					Mo. Day Year 0 1 0 2 9 6				

Husslein Plating Corp.
495 Peninsula Blvd.
Hempstead, New York 11550

Certified Mail/RRR

April 19, 1996

New York State Department of Environmental Conservation
Building 40 - SUNY, Stony Brook, New York 11790-2356
Division of Hazardous Waste Remediation

Re: Spill #95-07338 Fire 9/15/95

Dear Mr. Strwart:

Follow-up to your letter dated 9/21/95

As per your request, the following exhibits are to provide proof of legal disposal of all the waste liquids and waste solids stockpiled on site as a result of the fire.

Exhibit: A Is an invoice listing waste liquids and solids, payment check attached.
The first item on the invoice is 3300 gallons of solution from 4 of the tanks on sight.

<u>Tank No</u>	<u>Description</u>	<u>Quantity</u>
13	Chrome Tank	955 gals
14	Chromic acid (Hex) Tank	630 gals
16	Chromic Acid (Tri) Tank	485 gals
18	Storage/Hold tank	1230 gals

Exhibit: B Is the Hazardous Waste Manifest covering the 3300 gals listed in "Exhibit A".
This "Copy 5" was mailed by: Receiving Facility Owner or Operator: for Certification of receipt of hazardous materials, and has been signed by receiving facility.

The fourth item on "Exhibit A" is 1450 gallons of solution. This solution is from the partially melted tank that leaked and recovered solution from the burned area around the tank.

<u>Tank No</u>	<u>Description</u>	<u>Quantity</u>
9	Nickel Tank	1450 gals

Exhibit: C Is the Hazardous Waste Manifest covering the 1450 gals listed in "Exhibit A".
This "Copy 3" was mailed by: Receiving Facility Owner or Operator: for Certification of receipt of hazardous materials, and has been signed by receiving facility.

The Second item on "Exhibit A" is the 6 drums of waste soil that was removed from around the bay door.

The Third item on "Exhibit A" is chrome waste from the sight that needed to be removed.

Exhibit: D Is the Hazardous Waste Manifest covering the 6 Drums of waste soil and 1 Drum of chrome solid as listed on "Exhibit A".

This "Copy 5" was mailed by: Receiving Facility Owner or Operator: for Certification of receipt of hazardous materials, and has been signed by receiving facility.

The above manifest cover all materials held on sight as a result of the fire. If you have any questions or recommendations please call me at 516-485-5550.

Sincerely,

Gary Husslein

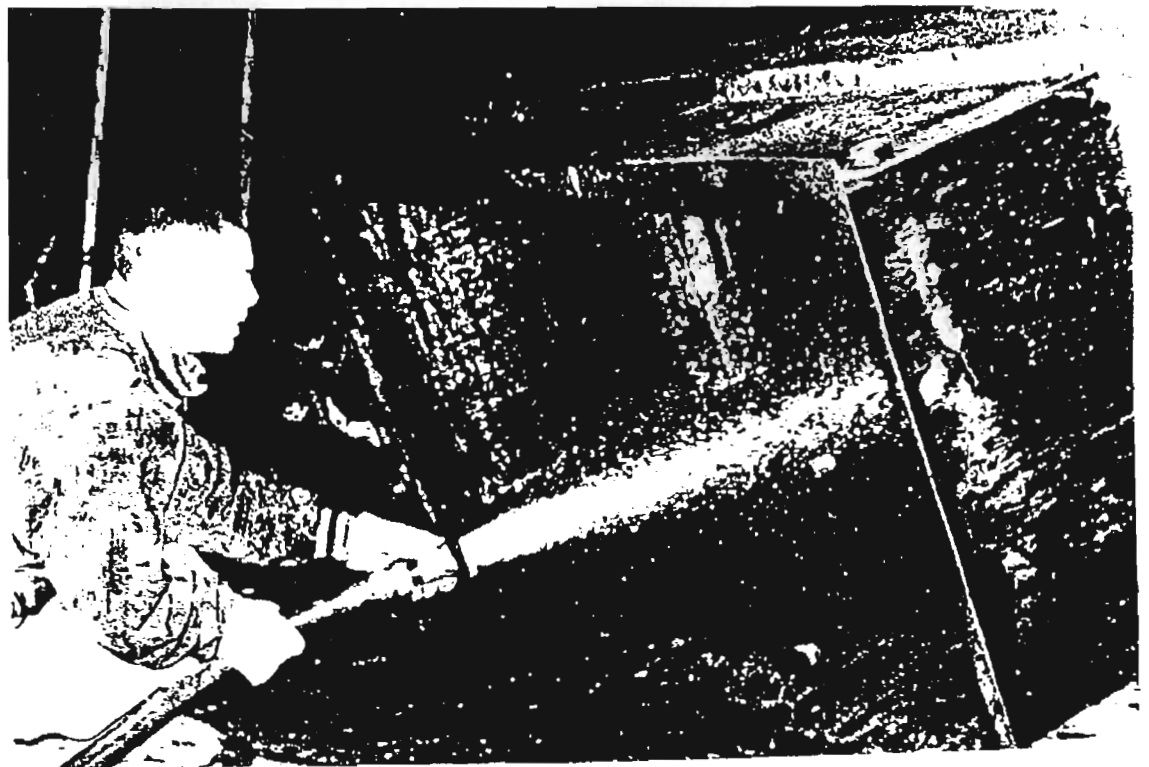
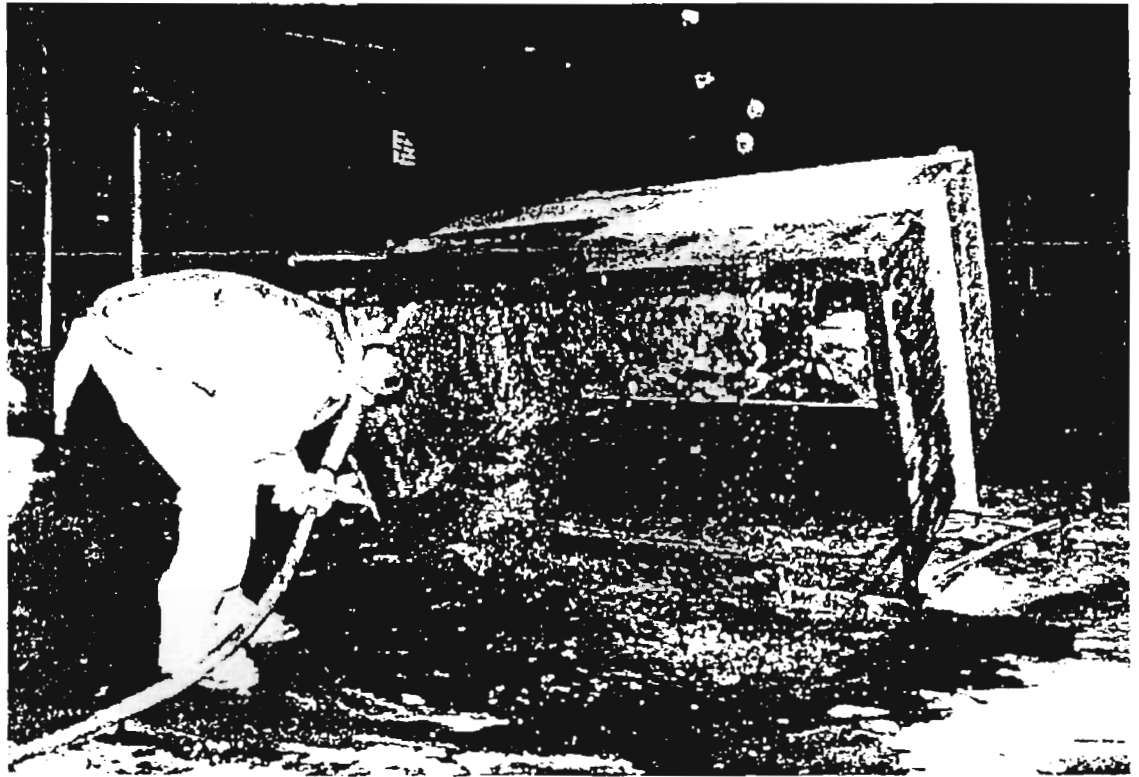
Enclosure: 4

cc: M. Osmond, NCDPW

Husslein Plating Corp
48 Sewell St., Hempstead NY

March-April 1996

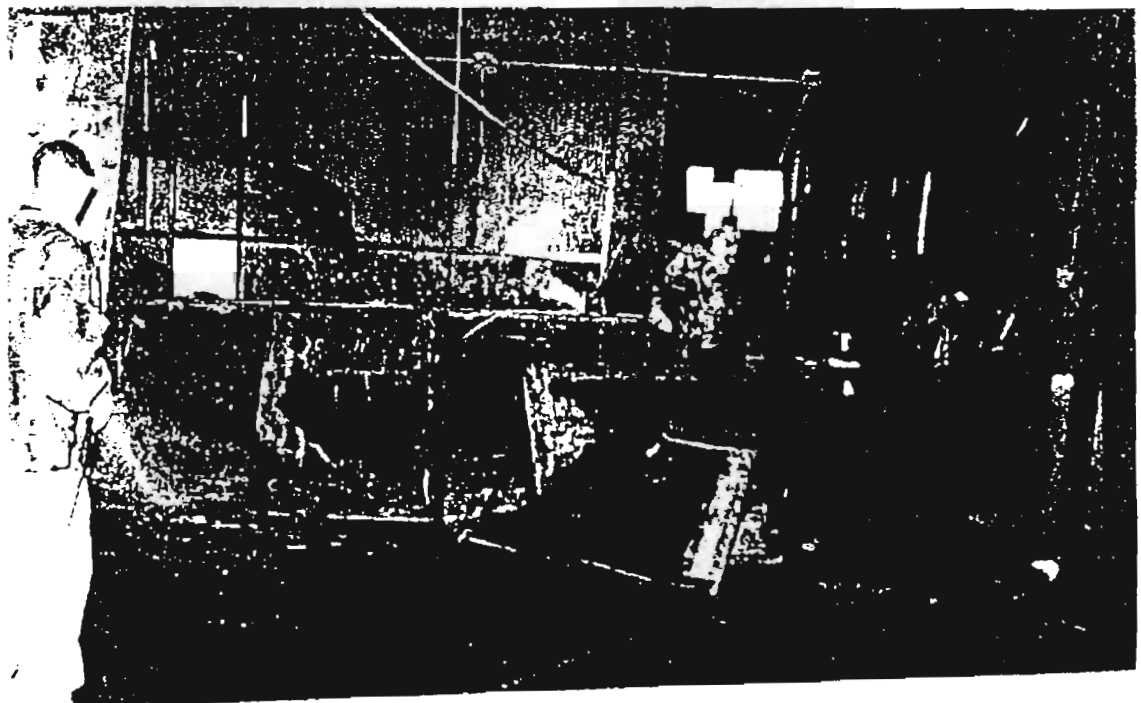
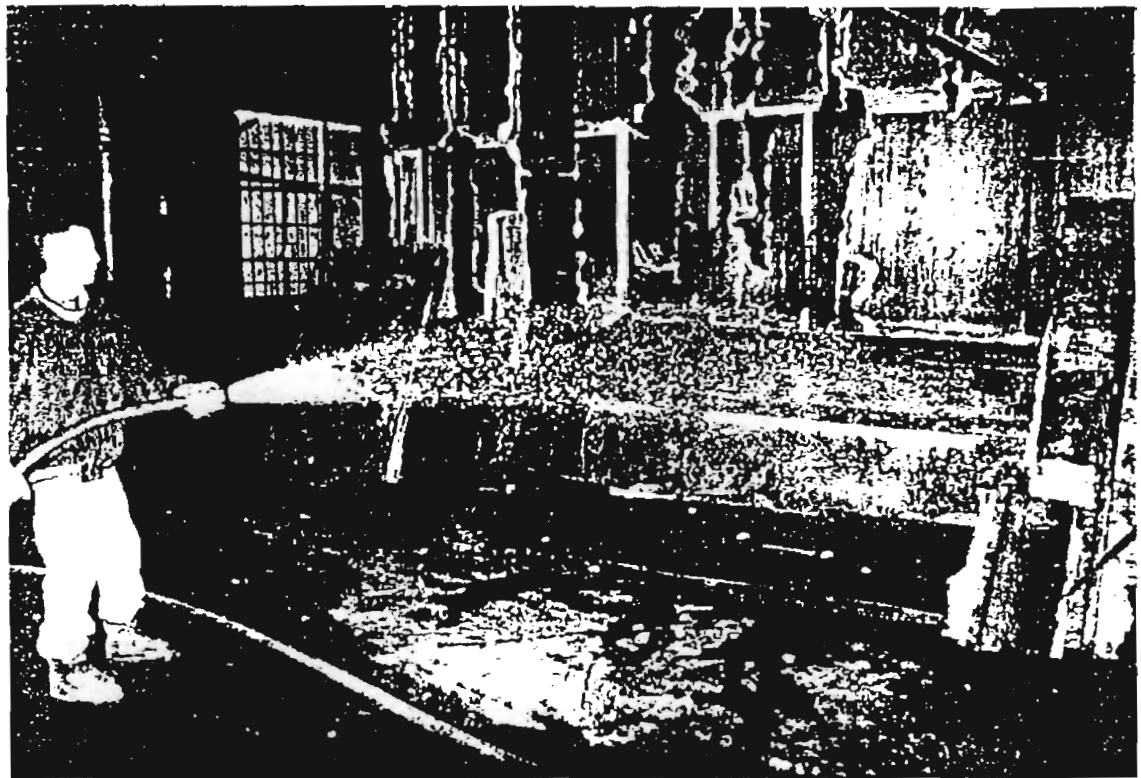
Pictures of dismantling and washing facility after fire of 9/15/95.



Husslein Plating Corp
48 Sewell St., Hempstead NY

March-April 1996

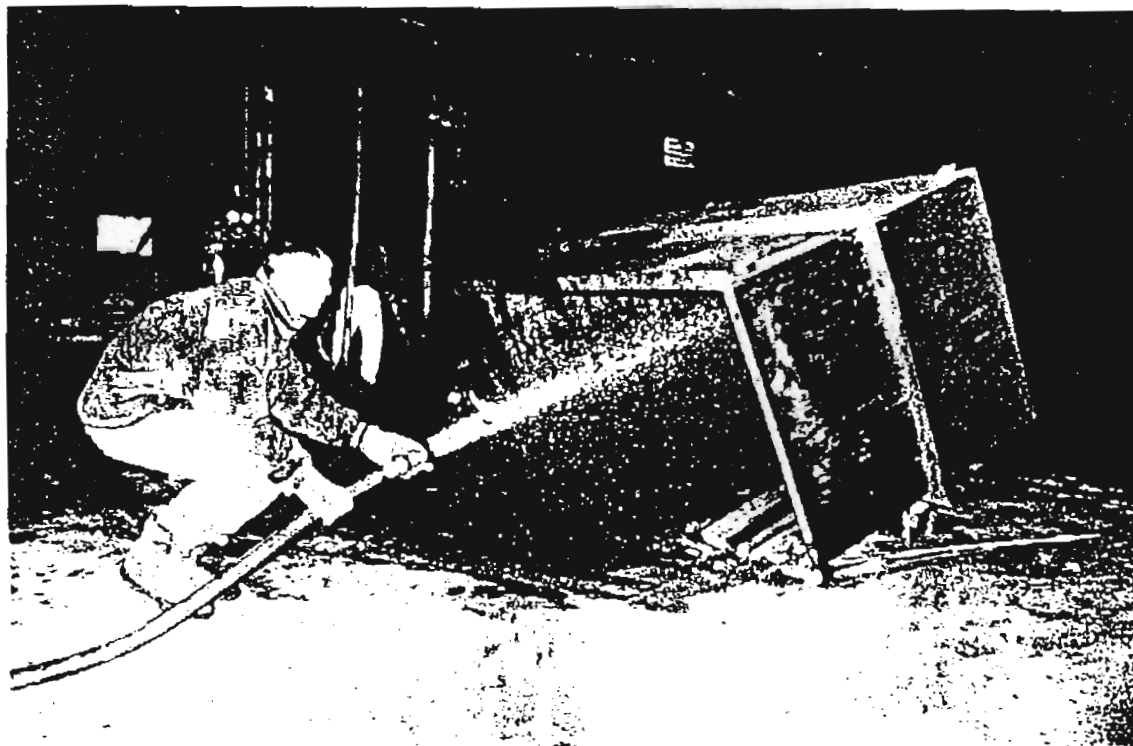
Pictures of dismantling and washing facility after fire of 9/15/95.



Husslein Plating Corp
48 Sewell St., Hempstead NY

March-April 1996

Pictures of dismantling and washing facility after fire of 9/15/95.



95-07338
CLOSED

Husslein Plating Corp.
495 Peninsula Blvd.
Hempstead, New York 11550

APR 22 1996

Certified Mail/RRR

April 19, 1996

New York State Department of Environmental Conservation
Building 40 - SUNY, Stony Brook, New York 11790-2356
Division of Hazardous Waste Remediation

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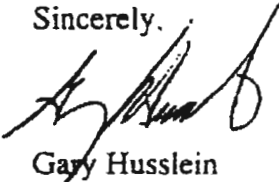
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The above manifest cover all materials held on sight as a result of the fire. If you have any questions or recommendations please call me at 516-485-5550.

Sincerely,



Gary Husslein

Enclosure: 4

cc: M. Osmond, NCDPW

Bureau of Waste Management
P. O. Box 8550
Harrisburg, PA 17105-8550
OFFICIAL PENNSYLVANIA MANIFEST FORM

Form approved.
OMB No. 2050-00
Expires 9-30-94

FORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

NYD002032751

Manifest

71533

2. Page 1
of 1

Information in the shaded areas
is not required by Federal law
but is required by State law.

Generator's Name and Mailing Address

Husslein Plating

48 Sewall St. Hempstead, NY 11550

4. Generator's Phone (516) 451 6158

5. Transporter 1 Company Name

6. US EPA ID Number

Republic Env. Sys. (Trans Group) | PAD982661381

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Republic Environmental Systems (PA) Inc.

2869 Sandstone Drive

Natfield, PA 19440

10. US EPA ID Number

PAD085690592

A. State Manifest Document Number

PAE 0171533

B. State Gen. ID

SAME

C. State Trans. ID

PA- | A H | 0317 | *

D. Transporter's Phone (215) 997 9111

E. State Trans. ID

PA- | | | |

F. Transporter's Phone ()

G. State Facility's ID

H. Facility's Phone (215) 822 8996

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

12. Containers

13. Total
Quantity

14. Unit
Wt/Vol

15. Waste N

A. RQ Hazardous Waste Solid, N.O.S.

ORM-E

HA91A9

D007 D008

(Contains Nickel carbonate, Sulfate Chloride)

X14 DM X8400 P

D008

D007

b.

c.

d.

J. Additional Descriptions for Materials Listed Above
Lab Pack Physical State

Lab Pack

Physical State

K. Handling Codes for Wastes Listed Above

a. ☐ S WD31020 (R)

c. ☐

a. S01 (L)

c.

b. ☐

d. ☐

b.

d.

15. Special Handling Instructions and Additional Information

PO #

ERG # 31

*PA-158

Emergency Phone # 516-451-61

Emergency Contact: GERRY HUSSEIN

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name
X ARNOLDO HIGUEROS

Signature

X [Signature]

MONTH DAY YE
10/6/18/9

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Vincent Murante

Signature

[Signature]

MONTH DAY YE
10/6/18/9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

MONTH DAY YE

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

MONTH DAY YE

APPLICATION FOR RENEWAL OF A TOXIC OR HAZARDOUS MATERIALS
STORAGE FACILITY PERMIT
DIVISION OF ENVIRONMENTAL HEALTH
NASSAU COUNTY DEPARTMENT OF HEALTH

PAGE 1
10/01/97

FACILITY ID NUMBER : 000224

APPLICATION DUE : 12/01/1997

OCT 20 1997

HUSSLEIN PLATING COR
48 SEWELL ST.
HEMPSTEAD NY 11550

NEW YORK STATE
TAX EXEMPT?
MUNICIPALITY
() YES () NO
IF YES, INDICATE
TAX EXEMPT NUMBER
AND ENCLOSE COPY
OF CERTIFICATE
(FORM ST-119.1)
CERTIFICATE
NUMBER:

FACILITY NAME
HUSSLEIN PLATING CORP.
HEMPSTEAD NY 11550

STREET ADDRESS
48 SEWELL ST.

FACILITY PHONE
516-481-6158

CONTACT PERSON
GARY HUSSLEIN

CONTACT TITLE
SEC.-TRES.

CONTACT PHONE
516-481-6158

FACILITY OWNER
LUDWIG HUSSLEIN JR.
NISSEQUOGUE NY 11780

STREET ADDRESS
93 STILLWATER LA.

OWNER PHONE
516-584-7835

PROPERTY OWNER
LUDWIG HUSSLEIN JR.
NISSEQUOGUE NY 11780

STREET ADDRESS
93 STILLWATER LA.

PROPERTY PHONE
516-584-7835

PERMITTEE NAME
HUSSLEIN PLATING CORP.
HEMPSTEAD NY 11550

STREET ADDRESS
48 SEWELL AVE.

PERMITTEE PHONE
516-481-6158

PERMITTEE'S RELATIONSHIP TO FACILITY OWNER X SAME

OPERATOR OF FACILITY

OTHER SPECIFY

TANK/STORAGE	CAPACITY	STATUS	LOCATION	TYPE OF MATERIAL STORED
0001	TANK 7000	INSERVC	INABOVEG	TRADE NAME, ORGANIC
0002	TANK 850	INSERVC	INABOVEG	TRADE NAME, ORGANIC
0005	TANK 700	INSERVC	INABOVEG	SULPHURIC ACID
0008	TANK 1600	INSERVC	INABOVEG	NICKEL PLATING SOLUTION
0009	TANK 1600	INSERVC	INABOVEG	NICKEL PLATING SOLUTION
0010	TANK 700	INSERVC	INABOVEG	NICKEL PLATING SOLUTION
0013	TANK 1000	INSERVC	INABOVEG	CHROME PLATING SOLUTION
0014	TANK 900	INSERVC	INABOVEG	CHROME PLATING SOLUTION
0015	TANK 700	INSERVC	INABOVEG	WATER TANK
0016	TANK 700	INSERVC	INABOVEG	TRADE NAME, INORGANIC

IF THERE IS ANY TANK(S) OR STORAGE AREA(S), AT YOUR FACILITY WHICH ARE NOT LISTED ABOVE PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION ABOUT EACH TANK OR AREA: CAPACITY, LOCATION, TYPE OF MATERIAL STORED IN THE TANK OR AREA, AND THE STATUS OF THE TANK OR AREA.

I HEREBY AFFIRM UNDER PENALTY OF PERJURY, THAT ALL THE INFORMATION PROVIDED ON THIS FORM AND ON ANY ATTACHED FORMS, STATEMENTS AND EXHIBITS IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PRINT NAME

SIGNATURE

TITLE

DATE

FOR RENEWAL OF A TOXIC OR HAZARDOUS MATERIALS
FACILITY PERMIT
OF ENVIRONMENTAL HEALTH
COUNTY DEPARTMENT OF HEALTH

PAGE 2
10/01/97

PERMIT ID NUMBER : 000224

EXPIRATION DATE : 12/01/1997

OCT 20 1997

TANK/STORAGE	CAPACITY	STATUS	LOCATION	TYPE OF MATERIAL STORED
0017 TANK	200	INSERVC	IN ABOVEG	WATER TANK
0019 TANK	800	INSERVC	IN ABOVEG	WATER TANK
0020 TANK	800	INSERVC	IN ABOVEG	HYDROCHLORIC ACID
0021 TANK	50	INSERVC	IN ABOVEG	NICKEL PLATING SOLUTION
0022 TANK	50	INSERVC	IN ABOVEG	NICKEL PLATING SOLUTION
0001 BULK	800	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK
0002 BULK	350	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK
0003 BULK	2700	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK
0004 BULK	2000	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK
0004 BULK	10	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK
0005 BULK	600	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK
0006 BULK	4800	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK
0006 BULK	800	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK
0007 BULK	80	INSERVC	INDOOR	MULTIPLE CHEMICALS STORED IN BULK

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PRINT NAME

SIGNATURE

TITLE

DATE

Husslein Plating Corporation
PO Box 530
Nesconset, NY 11767-0530

October 16, 1997

DIVISION OF ENVIRONMENTAL HEALTH
NASSAU COUNTY DEPARTMENT OF HEALTH
240 Old Country Road
Mineola, NY 11501

Re: Facility ID Number: 000224

Application for renewal of a toxic or hazardous materials storage facility permit,

To whom it may concern,

On September, 15 1995 there was a large fire at our site 48 Sewell Street, Hempstead, NY, 11550. Enclosed are copies of communication with, New York State Department of Environmental Conservation, Division of Hazardous Waste Remediation. As a result of the cleanup and dismantling of the operation we generated about 4.2 tons of waste early in 1996.

During the spring of 1996 an inspector came by from the Nassau County Department Of Health. I explained what had happened, what our course of action was and he left.

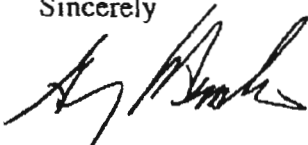
The clean-up portion included all chemicals in the storage areas and tanks that are listed on the facility permit. We were monitored and communicated with the NCDPW and DEC during this time.

After all chemicals were removed from the facility we started the dismantling operation. This included triple washing of all storage areas and tanks with high pressure and volume of water. Enclosed are some pictures that were taken when this was done.

There is nothing left of Husslein Plating Corporation except for a name and ID number. The corporation has been closed and is in the process of being dissolved by our accountant.

Please let me know what needs to be done to notify the Nassau County Department Of Health that we are out of service. Also what needs to be done to have our Facility ID marked as "out of service"?

Sincerely



Gary Husslein
Enclosure: 5



COUNTY OF NASSAU
DEPARTMENT OF HEALTH
240 OLD COUNTRY ROAD
MINEOLA, N.Y. 11501-4250

Dear

Mr. Harris:

*Formerly: 10/16/00
RG: Husselin Inc.
Same Bus Co.
48-56 Jewell Street
Hempstead, N.Y.*

Your request for access to records of the Department of Health has been approved. Records will be made available during normal working hours at 240 Old Country Road, Mineola, and there will be a 25¢ per page fee for photo copying any Nassau County Records. (NOTE: Responses to Lead FOIL requests are handled separately.)

The Nassau County Department of Health shall not be responsible for inaccuracies in electronic information due to programming and/or clerical error.

Listed below are the Bureau(s) which have searched their files for records pertaining to your request. Please call the Bureau(s) checked below and speak to the contact person before arriving to see the records:

<u>BUREAU(S)</u>	<u>CONTACT PERSON</u>	
<input checked="" type="checkbox"/> <u>ENVIRONMENTAL MANAGEMENT AND/OR ENGINEERING</u> Petroleum & Chemical Tanks & Bulk Storage, Including Spills & Leaks; Medical Waste; Solid Waste; Air Emission Permits; Road Salt Storage; Underground Injection Control (dry cleaners only)	Mr. Silvers	571-2404
<input type="checkbox"/> <u>ENVIRONMENTAL INVESTIGATION AND ASSESSMENT</u> Environmental Investigations and Complaints Including Odors; Asbestos; Tobacco Smoking	Mr. Gaige	571-3232
<input type="checkbox"/> <u>WATER SUPPLY PROTECTION</u> Drinking Water; Private Wells; Groundwater Quality; Backflow Prevention Devices; Bottled Water; Realty Subdivisions; Private Sewage Disposal; Sewer Extensions; Sewer Connections; Underground Injection Control(except dry cleaners)	Mr. Irwin	571-3323
<input type="checkbox"/> <u>ENVIRONMENTAL SANITATION</u>		
<input type="checkbox"/> Food Protection.	Mr. Lynch	571-3680
<input type="checkbox"/> Summer Camps; Temporary Residences; Bathing Facilities.	Mr. Jacobs	571-3680
<input type="checkbox"/> Housing; Rodent Control; Heat; General Nuisance.	Mr. Putnam	571-2328
<input type="checkbox"/> Radiological Health.	Mr. Walderman	571-3313
<input type="checkbox"/> <u>No Records Noted</u>		

Yours truly,

Nola Sanchez
Nola Sanchez
(516) 571-3571

Genoa & Associates. P.C.

ATTORNEYS AT LAW

12 JAEGER DRIVE, OLD BROOKVILLE, NEW YORK 11545

(516) 759-7940

FAX (516) 674-9425

Marilyn H. Genoa

Joi Aberle

Edward Kalenscher
RETIRED

August 5, 2003

Via Facsimile (516) 486-5609
Village of Hempstead
Hempstead New York 11550
Attention: Fire Alarm Department

Re: 48 Sewell Street, Hempstead, New York
Section 35 Block 638 Lots 21-28

Dear Sir:

As discussed, please forward copies of all documentation, including but not limited to reports, correspondence, memorandum, inspection reports, Fire Marshall reports, summaries, records, etc. with regard to the fires which occurred at 48 Sewell Street.

Very truly yours,
Genoa & Associates, P.C.

Joi Aberle
Joi Aberle

GENOA & ASSOCIATES, P.C.
ATTORNEYS AT LAW
12 JAEGER DRIVE, OLD BROOKVILLE, NEW YORK 11545

(516) 759-7940
FACSIMILE (516) 674-9425

FACSIMILE TRANSMITTAL SHEET

TO: Fire Alarm Department - Village of Hempstead FAX: 516-486-5609

FROM: Joi Aberle, Esquire

DATE OF TRANSMITTAL: August 5, 2003

TOTAL PAGES INCLUDING COVER SHEET: 2

IF YOU DO NOT RECEIVE ALL THE ABOVE INDICATED PAGES, PLEASE CONTACT SENDER AS SOON AS POSSIBLE.

COMMENT: Re: 48 Sewell Street, Hempstead, New York

CONFIDENTIAL COMMUNICATION

THIS TRANSMISSION IS INTENDED ONLY FOR THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED, AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS COMMUNICATION IS NOT THE INTENDED RECIPIENT, OR ITS EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE COMMUNICATION TO THE INTENDED RECIPIENT, YOU ARE NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR PLEASE NOTIFY THE SENDER IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL COMMUNICATION TO US AT THE ABOVE ADDRESS BY THE U.S. POSTAL SERVICE. THANK YOU.

Genoa & Associates, P.C.

ATTORNEYS AT LAW

12 JAEGER DRIVE, OLD BROOKVILLE, NEW YORK 11545

(516) 759-7940

FAX (516) 674-9425

Marilyn K. Genoa

Joi Abate

Edward Kalenscher
RETIRED

August 7, 2003

Records Access Officer
Nassau County Department of Health
240 Old Country Road
Mineola, New York 11501

Re: 48 Sewell Street, Hempstead, New York
Section 35 Block 638 Lots 21-28

Dear Sir or Madam:

Our firm represents the owners of the above referenced premises.

Enclosed please find a completed Application for Public Access to Environmental Health Records. As requested, please contact our office when the records, including but not limited to reports, correspondence, memorandum, inspection reports, Fire Marshall reports, summaries, records, etc. for 48 Sewell Street, Hempstead are available for review.

If you require any additional information or documentation, please contact our office.

Very truly yours,
Genoa & Associates, P.C.

Joi Abate
Joi Abate

Enclosures
cc: Estate of Husslein
J. Soderberg, Esq.
Jill Haimson

**APPLICATION FOR PUBLIC ACCESS TO ENVIRONMENTAL HEALTH RECORDS
NASSAU COUNTY DEPARTMENT OF HEALTH**

To: Records Access Officer
Nassau County Department of Health
240 Old Country Road
Mineola, New York 11501

Date of Request: August 7, 2003

Fax: (516) 571-1475, 571-3369

I Joel Aberle
Print Your Name

Signature 

REPRESENTING Firm Genoa & Associates, P. Client Estate of Ludwig Husslein

Your Mailing Address 12 Jaegger Drive, Old Brookville, New York 11545

Phone Number (516) 759-7940 Fax Number (516) 674-9425

HEREBY APPLY TO INSPECT RECORDS FOR THE FOLLOWING ESTABLISHMENT:

Complete One Application for Each Establishment

Name Husslein businesses Previous Name _____

Address 48 Sewall Street, Hempstead, New York
No., Street, Community (We cannot identify parcels by their Section/Block/Lot)

Is the Establishment still in business? Yes _____ or No X
If no, enter year closed approx '95 (This is necessary to retrieve the file.)

REASON FOR RECORD(S) REQUESTED: Owners Requested inconection with

Environmental Assessment of premises

PLEASE CHECK THE BUREAUS YOU REQUEST TO BE SEARCHED, AND CIRCLE THE SPECIFIC FILES YOU WISH TO ACCESS:

*Note: Requests for Lead Files **MUST** use separate Lead FOIL Form available by calling (516) 571-4963.*

*Note: Requests for Animal Bites Files **MUST** use separate Animal Bites FOIL Form available by calling (516) 571-2290.*

*Note: Requests for West Nile Virus, Mosquito Control or Pesticide Notification Files **MUST** use separate FOIL Form available from Records Access Offices.*

☒ Bureau of Environmental Protection has files concerning: Drinking Water; Private Wells; Ground Water Quality; Backflow Prevention Devices; Bottled Water; Realty Subdivision; Private Sewage Disposal; Sewer Extensions; Sewer Connections; Underground Injection Control; Petroleum & Chemical Tanks & Bulk Storage, including Spills and Leaks; Medical Wastes; Solid Wastes; Air Emission Permits; Road Salt Storage.

☒ Bureau of Environmental Investigation has files concerning: Environmental Investigations and Complaints including Odors; Asbestos; Tobacco Smoking; Housing; Rodent Control; Heat; General Nuisance.

☐ Bureau of Environmental Sanitation has files concerning: Food Protection; summer Camps; Temporary Residences; Bathing Facilities; Radiological Health.

FOR HEALTH DEPARTMENT USE ONLY BELOW THIS LINE

Signature _____	<input type="checkbox"/> Approved
Date _____	<input type="checkbox"/> Denied

Genoa & Associates, P.C.

ATTORNEYS AT LAW

12 JAEGER DRIVE, OLD BROOKVILLE, NEW YORK 11545

(516) 759-7940

FAX (516) 674-9425

Marilyn H. Genoa

Joi Abelle

Edward Halenscher
RETIRED

August 7, 2003

Records Access Officer
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-1016

Re: 48 Sewell Street, Hempstead, New York
Section 35 Block 638 Lots 21-28

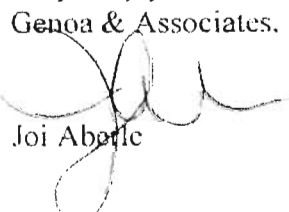
Dear Sir or Madam:

Our firm represents the owners of the above referenced premises.

Enclosed please find a completed Application for Public Access to Records. As requested, please contact our office when the records, including but not limited to reports, correspondence, memorandum, inspection reports, Fire Marshall reports, summaries, records, etc. for 48 Sewell Street, Hempstead are available for review.

If you require any additional information or documentation, please contact our office.

Very truly yours,
Genoa & Associates, P.C.


Joi Abelle

Enclosures
cc: Estate of Husslein
J. Soderberg, Esq.
Jill Haimson

APPLICATION FOR ACCESS TO RECORDS

(See Instructions on Reverse Side)

NUMBER

• TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:

I hereby apply to inspect the following records under the provisions of the Freedom of Information Law:

Address: 48 Sewell Street, Hempstead, NY 11550Owner is investigating environmental assessment of premises
interested in storage of toxic materials, inspections,violations, permits, etc.m Also # 9203597 & 9507338

After inspection, should I desire copies of all or part of the records inspected, I will identify the records to be copied and hereby offer to promptly pay the established fees. (Cost of reproduction or 25¢ per page as applicable). Contact me if cost will exceed

\$ 550.00Name (Print or type) Joi AberleTelephone No. (516) 759-7940Attention of: Genoa & Associates, P.C.Mailing Address 12 Jaegger Drive, Old Brookville, NY 11545Signature Joi AberleDate 8/7/03

• TO THE APPLICANT:

-Records Provided

- ☐ The reproduction costs for the records provided are \$ _____
- ☐ Records have been (partially, fully) provided. (If not fully provided, date when records are expected to be fully provided: _____)

-Records Not Available

- ☐ Records cannot be found after diligent search
- ☐ The Department is not the custodian for records indicated

-Records Denied

I hereby certify that access to the records—or part of the records—circled above has been denied to the applicant for the reason(s) checked below:

- | | |
|--|---|
| <input type="checkbox"/> Specifically exempt by other statute
<input type="checkbox"/> Unwarranted invasion of personal privacy
<input type="checkbox"/> Would impair present or imminent contract awards or collective bargaining negotiations
<input type="checkbox"/> Are examination questions or answers
<input type="checkbox"/> Are inter-agency or intra-agency materials that are not:
• statistical or factual tabulations or data
• instructions to staff that affect the public
• final agency policy or determinations; or
• external audits, including but not limited to audits performed by the comptroller and the federal government
<input type="checkbox"/> Are trade secrets | <input type="checkbox"/> Would endanger the life of any person
<input type="checkbox"/> Are compiled for law enforcement purposes and which, if disclosed would:
• interfere with law enforcement investigations or judicial proceedings
• deprive a person of the right to a fair trial or or impartial adjudication
• identify a confidential source or disclose confidential information relating to a criminal investigation. or
• reveal criminal investigative techniques or procedures, except routine techniques and procedures
<input type="checkbox"/> Would jeopardize an agency's capacity to guarantee the security of its information technology assets, such assets encompassing both electronic information systems and infrastructures |
|--|---|

Identification of records withheld (attach listing if additional space is required) and/or explanation if appropriate:

Records Custodian Signature _____

Title _____

Date _____

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Genoa & Associates, P.C.
ATTORNEYS AT LAW
12 JAEGER DRIVE, OLD BROOKVILLE, NEW YORK 11545
(516) 759-7940
FAX (516) 674-9425

FILE COPY

Marilyn H. Genoa

Joi Aberle

Edward Kalanscher
RETIRED

August 7, 2003

Nassau County Fire Commission
Office of the Fire Marshall
899 Jerusalem Avenue
PO Box 128
Uniondale, New York 11553-0128

Re: 48 Sewell Street, Hempstead, New York
Section 35 Block 638 Lots 21-28

Dear Sir:

Our firm represents the owners of the above referenced premises.

Enclosed please find a completed Application for Public Access to Records. As requested, please contact our office when the records, including but not limited to reports, correspondence, memorandum, inspection reports, Fire Marshall reports, summaries, records, etc. for 48 Sewell Street, Hempstead are available for review.

If you require any additional information or documentation, please contact our office.

Very truly yours,
Genoa & Associates, P.C.

Joi Aberle



Enclosure
cc: Estate of Ludwig Husslein



APPLICATION FOR PUBLIC ACCESS TO RECORDS

TO: Records Access Officer

DATE: 8-7-03

I hereby apply to inspect the following record: (Exact address including Number & Street)

48 Sewell Street, Hempstead

Reason for inspection: (Be specific)

environmental Assessment of Premise - interested in storage of toxic or hazardous materials, permits, inspections, violations, etc.

Joi Aberle

Name (Please Print)

Pending Litigation

YES ☐

NO ☐

Signature

Estate of Ludwig Husslein - owner

Person or Firm your office represents

Genoa & Associates, P.C.

Representing (Business Name)

c/o Genoa & Associates, P.C.

Address

Mailing Address: 12 Jaegger Drive, Glen Head New York 11545

Phone No.: (516) 759 - 7940

FOR FIRE MARSHAL USE ONLY

☐

Approved

☐

Record of which this Agency is Legal Custodian, cannot be found

☐

Denied for reason(s) checked

☐

Record is not Maintained by this Agency

☐

Confidential Disclosure - Part of Investigatory Files

☐

Exempted by Statute other than Freedom of Information Act

☐

Unwarranted Invasion of Personal Privacy

☐

Other

Signature

Title

Date

NOTICE: You have a right to appeal denial of this application to the head of this agency.

Fire Marshal, 899 Jerusalem Avenue, PO Box 128, Uniondale, NY 11553, who must fully explain his reasons for such denial in writing within seven days of receipt of an appeal.

I hereby Appeal:

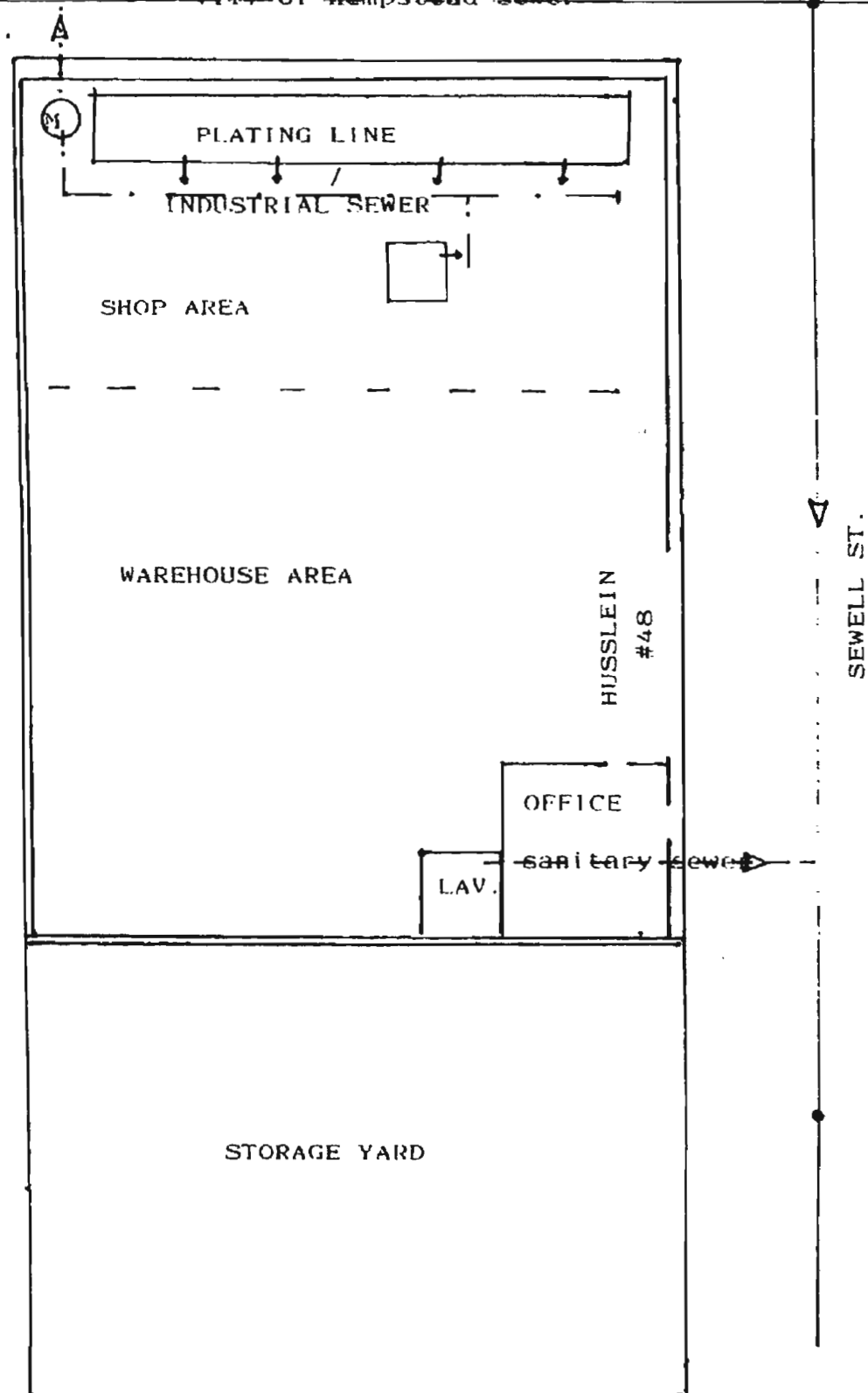
Signature

Date

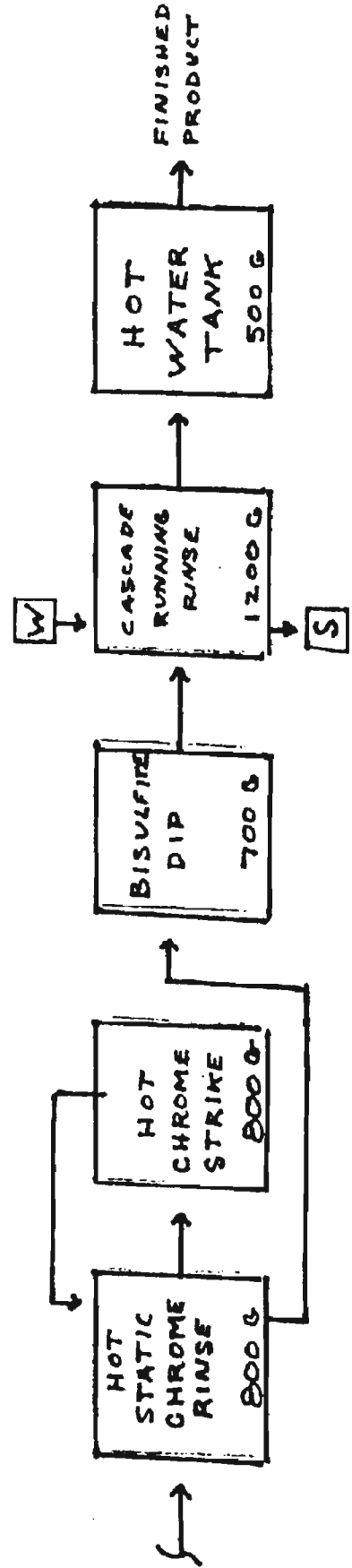
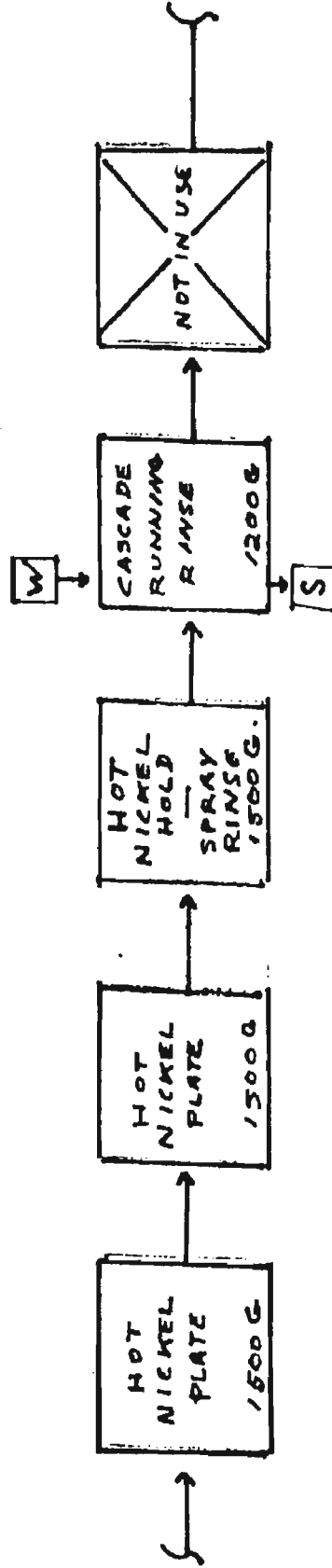
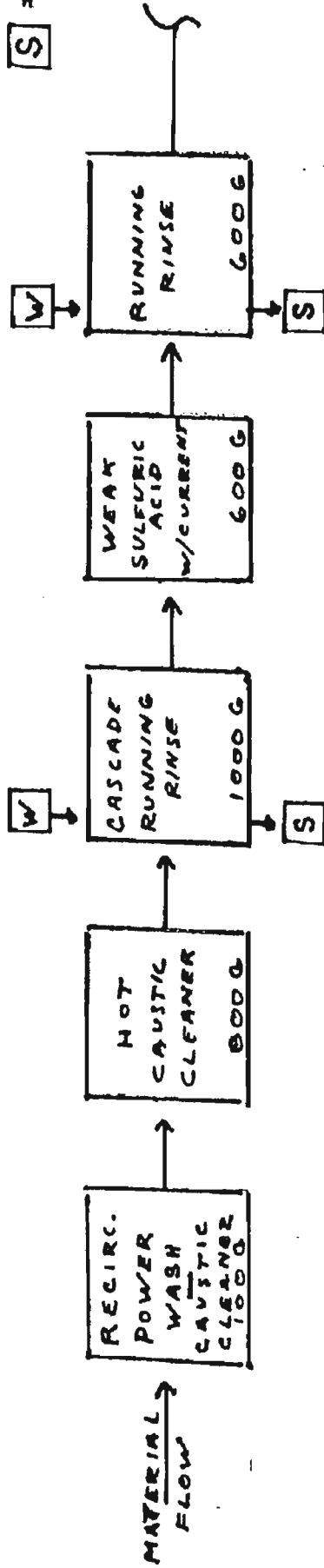
M = monitoring point.

MIRSHEL ST.

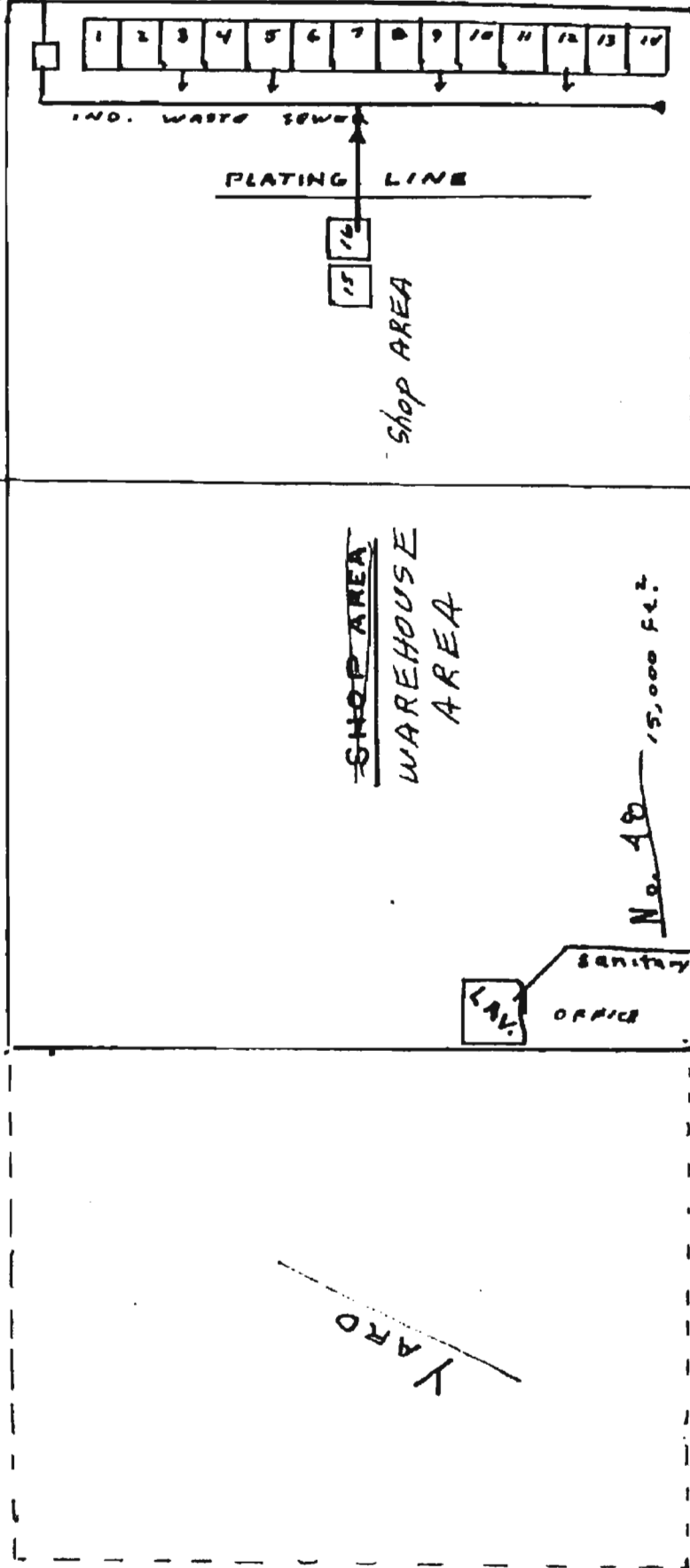
Vill. of Hempstead sewer



W = WELL WATER
S = TO SEW



NOTE: Water losses from evaporation are made up with municipal water supply.



SEWELL ST.

*ml
pic*

ITEM NO.	CHEMICAL COMPOUND	SUSPECT	KNOWN	SUSPECT	KNOWN
		ABSENT	KNOWN	ABSENT	PRESENT
64.	dichlorodifluoromethane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
65.	1,1-dichloroethane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
66.	1,2-dichloroethane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
67.	1,1-dichloroethene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68.	trans-1,2-dichloroethene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69.	2,4-dichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70.	1,2-dichloropropane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
71.	(cis & trans) 1,3-dichloropropene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72.	dieldrin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73.	diethyl phthalate*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74.	2,4-dimethylphenol*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75.	dimethyl phthalate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
76.	di-n-butyl phthalate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
77.	di-n-octyl phthalate*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
78.	4,6-dinitro-2-methylphenol*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79.	2,4-dinitrophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80.	2,4-dinitrotoluene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81.	2,6-dinitrotoluene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82.	1,2-diphenylhydrazine*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83.	endosulfan I*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.	endosulfan II*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.	endosulfan sulfate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86.	endrin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.	endrin aldehyde	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88.	ethylbenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
89.	fluoranthene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
90.	fluorene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
91.	heptachlor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
92.	heptachlor epoxide	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
93.	hexachlorobenzene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
94.	hexachlorobutadiene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
95.	hexachlorocyclopentadiene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
96.	hexachloroethane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97.	indeno(1,2,3-cd)pyrene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98.	isophorone*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
99.	methylene chloride*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100.	naphthalene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101.	nitrobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
102.	2-nitrophenol*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
103.	4-nitrophenol*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
104.	N-nitrosodimethylamine*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
105.	N-nitrosodi-n-propylamine*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
106.	N-nitrosodiphenylamine*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
107.	PCB-1016*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
108.	PCB-1221*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
109.	PCB-1232*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
110.	PCB-1242*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
111.	PCB-1248*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM NO.	CHEMICAL COMPOUND	SUSPECT ABSENT KNOWN	KNOWN ABSENT	SUSPECT PRESENT	KNOWN PRESENT
112.	PCB-1254*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
113.	PCB-1260*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
114.	pentachlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
115.	phenanthrene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
116.	phenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
117.	pyrene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
118.	2,3,7,8-tetrachlorodibenzo- p-dioxin*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
119.	1,1,2,2-tetrachloroethane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120.	tetrachloroethene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
121.	toluene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
122.	toxaphene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
123.	1,2,4-trichlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124.	1,1,1-trichloroethane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
125.	1,1,2-trichloroethane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
126.	trichloroethene*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
127.	trichlorofluoromethane*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
128.	2,4,6-trichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
129.	vinyl chloride*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. For chemical compounds in F.1 which are indicated to be "Known Present", please list and provide the following data for each:

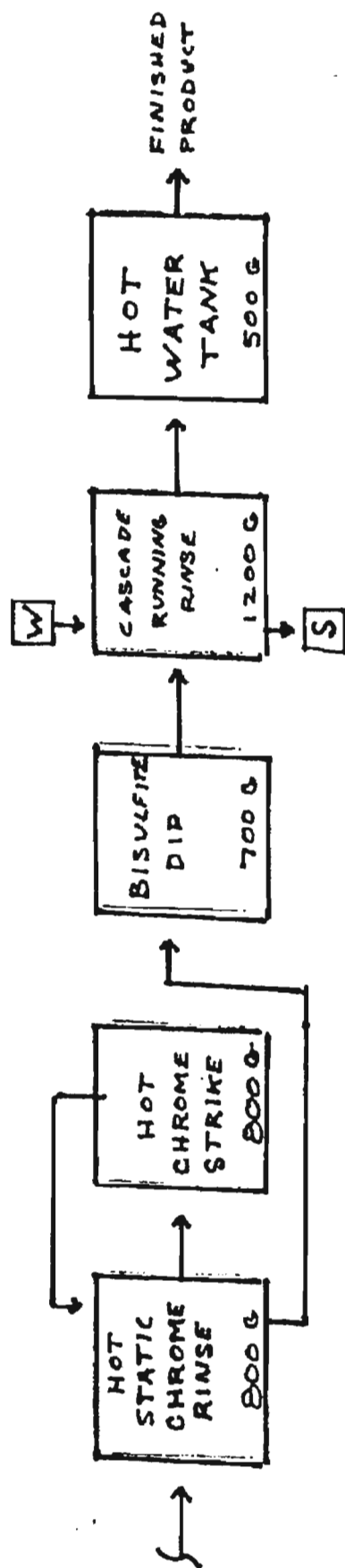
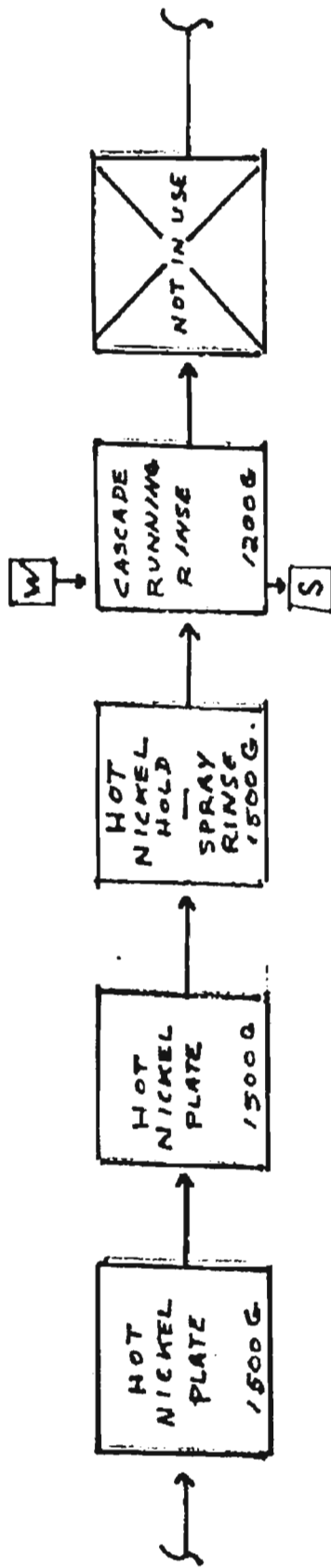
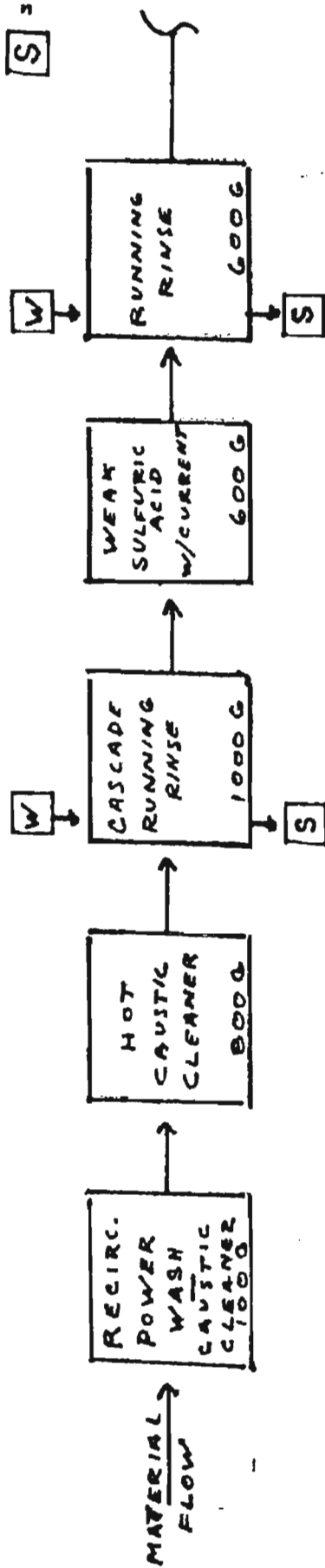
[illegible]

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

Analytical procedures used for the attached analyses are all EPA approved methods. The methods and reference EPA method numbers used are identified below.

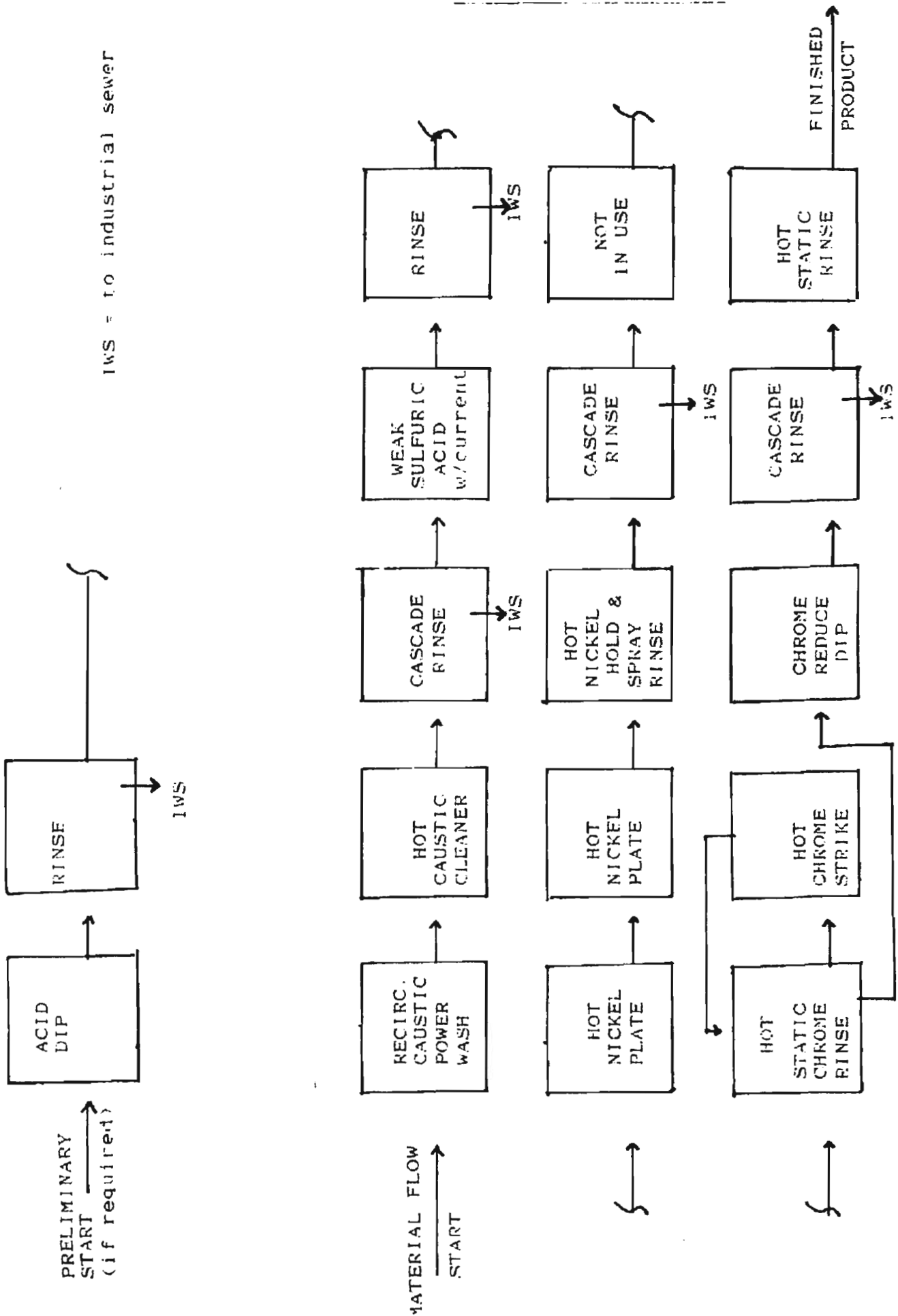
Chromium: 218.1; Atomic Absorption - direct aspiration
Iron: 236.1; Atomic Absorption - direct aspiration
Nickel: 249.1; Atomic Absorption - direct aspiration
pH: 150.1; Electrometric

5 to see



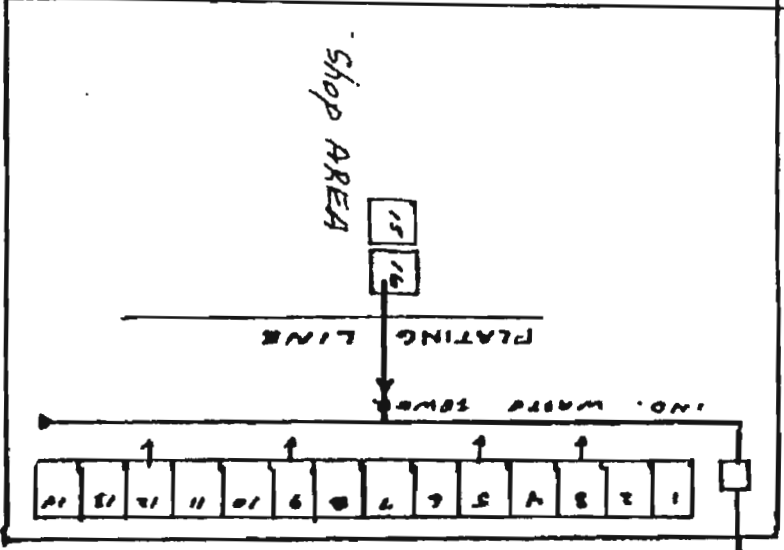
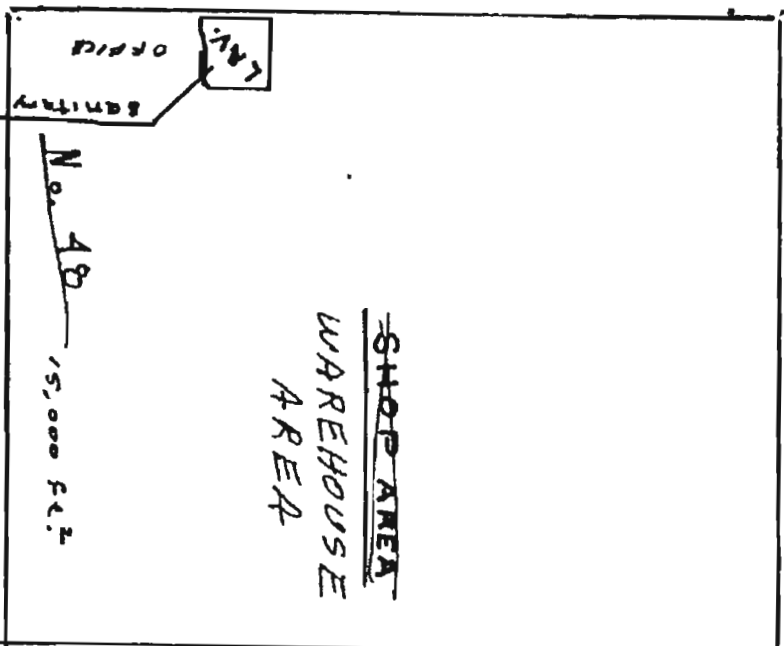
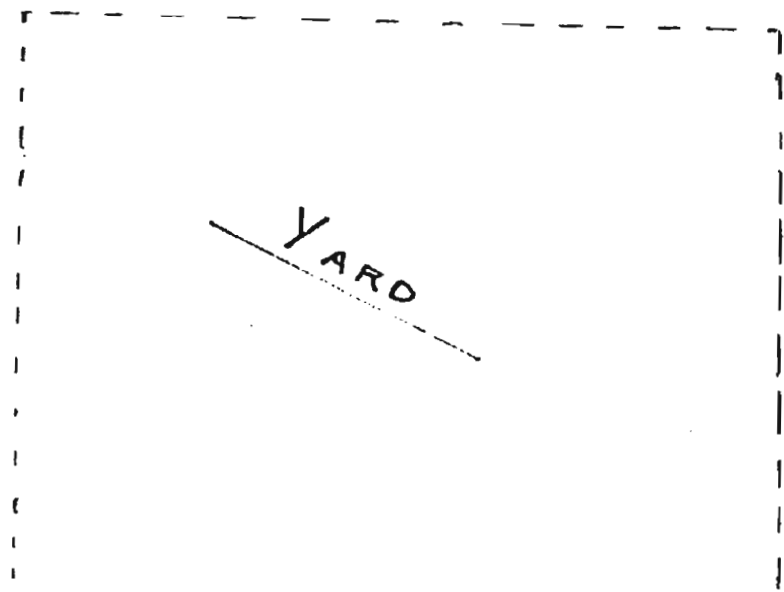
NOTE: water losses from evaporation are made up with municipal water supply.

HUSSLEIN PROCESS LINE





YARD



SEWELL ST.

VIL. OF HEMPSTEAD SEWER

MIRSHEL ST.

INSTRUCTIONS: Complete all information for those chemicals your facility has used, stored, distributed, or otherwise disposed of since January 1, 1977. Do not include chemicals used only in analytical laboratory work.

PART II - CHEMICALS USED (include gases and oils)

Name of Chemical/Trade Name, Supplier and Address	Code	Avg Annual Usage	Gal Lbs	Use of Chemical	Final Disposition of Chemical
Chromic acid		1500	X	Plating	
Enquist Chemical Co. Corp.					
400 Varick Ave					
Buffalo, N.Y. 11237					
Sodium hydroxide		12,000	X	Cleaning	Sewers
Sulfuric acid		3,350	X	Etching (pickle tank)	
Permanganate acid		3,600	X	Chrome stripper	
Patching Chemical Co. 303 H electrochem 1050			X	plating	
666 Alexander St 381 XW Pasadena		5,400	X	Cleaning	
Yonkers, N.Y. 10701					
Merckle chloride (516 p/gal)		500	X	plating	
Merckle sulfate (618 p/gal)		1,000	X	"	
Sodium bisulfate		1,000	X	Chem-Treatment	plating salts?
					Merckle (500 gal)

RECOMMENDED ACTION

2 ☐ Immediate Abatement 5 ☐ Refer To 9 ☐ Other (specify)

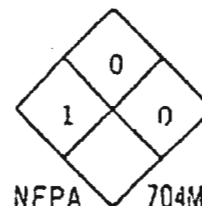
3 ☐ Samples 6 ☐ Reinspection

4 ☒ No action



MATERIAL SAFETY DATA SHEET

[Similar to OSHA Form 20]



H-33-80R

SECTION I

SUPPLIERS NAME	The Harshaw Chemical Company	EMERGENCY TELEPHONE NUMBER	216/721-9300
ADDRESS	1945 E. 97th Street Cleveland, OH 44106	CODE	451-016-18
CHEMICAL NAME	Nickel Sulfate	PRODUCT NAME	Nickel Sulfate, Liquid
CAS No.	7787-81-41	FORMULA	Ni SO ₄ ·6H ₂ O in Solution

SECTION II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL OR COMPONENT

%

THRESHOLD LIMIT VALUE

Ni SO₄·6H₂O

45.5%

0.1 mg/m³ as Ni (ACGIH, 1980)

SECTION III - PHYSICAL DATA

BOILING POINT	N/A	MELTING POINT	N/A
SPECIFIC GRAVITY (H ₂ O=1)	1.3	VAPOR PRESSURE	N/A
VAPOR DENSITY (Air=1)	N/A	SOLUBILITY IN H ₂ O (% BY WT.)	Completely soluble
% VOLATILES BY VOL.	Ca54	EVAPORATION RATE (BUTYL ACETATE=1)	N/A
APPEARANCE AND ODOR	clear, green liquid; odorless		

SECTION IV - FIRE AND EXPLOSION DATA

Not A Fire Hazard

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II.

EFFECTS OF OVEREXPOSURE

Eyes : Causes irritation.

Skin : Causes irritation and sensitization or allergic skin reactions which may be accentuated by heat and humidity.

Inhalation : Mists cause upper respiratory irritation. Individuals hypersensitive to nickel may develop asthma, bronchitis, shortness of breath, wheezing.

EMERGENCY & FIRST AID PROCEDURES:

Eyes : In case of contact, immediately flush with water for at least 15 minutes. Call a physician.

Skin : In case of contact, immediately wash skin with soap and plenty of water.

Inhalation : Remove to fresh air; if breathing difficult, give oxygen. If not breathing, give artificial respiration and call a physician.

SECTION VI - REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY : None Expected.

INCOMPATIBILITY : None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Soak up with inert absorbant and scoop into container for disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, state, and local laws.

SECTION VIII - PROTECTIVE EQUIPMENT

VENTILATION : Local exhaust ventilation to control any misting.

PERSONAL PROTECTIVE EQUIPMENT:

- 1) An approved respirator, if necessary.
- 2) Gloves.
- 3) Safety glasses; chemical goggles.

SECTION IX - SPECIAL PRECAUTIONS

Avoid contact with eyes, skin, and clothing.
Avoid breathing.
Wash after handling.
Use only with adequate ventilation.

SECTION X - PERSONNEL SAMPLING PROCEDURE

Consult NIOSH Manual of Sampling Data Sheets, 1977 Edition Method S206.

Equipment:

- 1) Calibrated personal sampling pump, 1-2 lpm capacity $\pm 5\%$ w/sample train.
- 2) 37mm 3-piece cassette filter holder w/37mm diameter 0.8um pore size mixed cellulose ester membrane filter and back-up pad.

Procedure:

- Sample size of 90 liters @ 1.5-2.0 lpm.
- Obtain a personal sample by attaching cassette to or near collar.



MATERIAL SAFETY DATA SHEET

7003

Approved by U. S Department of Labor Essentially Similar to Form OSHA-20

SUPPLIER	Chemtech Industries, Inc.		
ADDRESS	1655 Des Peres Road, P. O. Box 31000, St. Louis, MO 63131		
CHEMICAL NAME AND SYNONYMS	Nickel Chloride Solution	TRADE NAME	
CHEMICAL FAMILY	Salts	FORMULA	NiCl ₂

I. PHYSICAL DATA

BOLLING RANGE	N/A	API GRAVITY	
SPECIFIC GRAVITY (Water=1)	1.34	POUNDS/GAL.	
VAPOR PRESSURE (mm of Hg) at 20°C	N/A	VAPOR DENSITY (Air=1)	N/A
SOLUBILITY IN WATER	Complete	SOLUBILITY IN ACID (85% H ₂ SO ₄)	
EVAPORATION RATE (Water=1)	N/A	PER CENT VOLATILE BY VOLUME	N/A
APPEARANCE	Clear green liquid	ODOR	odorless
REFRACTIVE INDEX AND DENSITY		ANILINE POINT	

II. HAZARDOUS INGREDIENTS

MATERIAL	VOLUME PER CENT	TLV (Units)

III. FIRE AND EXPLOSION HAZARD DATA

LOWER FLAMMABLE LIMIT AIR (Per Cent by Volume)		D.O.T. CLASSIFICATION	CORROSIVE
FLASH POINT (FBI Method)	None	FLAMMABILITY CLASSIFICATION	
EXTINGUISHING MEDIA	None		
SPECIAL FIRE FIGHTING PROCEDURES	None		
UNUSUAL FIRE HAZARDS	None		

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	N/A
EFFECTS OF OVEREXPOSURE	Mild skin irritant
EMERGENCY AND FIRST AID PROCEDURES	Flush with water. If swallowed, induce vomiting. If splashed in eyes, rinse thoroughly.

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID		INCOMPATIBILITY (Materials to Avoid)	None
UNSTABLE	STABLE X				
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID		HAZARDOUS DECOMPOSITION PRODUCTS	None
MAY OCCUR	WILL NOT OCCUR X				

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED- OR SPILLED	Flush with water. Use usual clean up procedures.
WASTE DISPOSAL METHOD	Follow local disposal regulations.

VII. SPECIAL PROTECTION INFORMATION

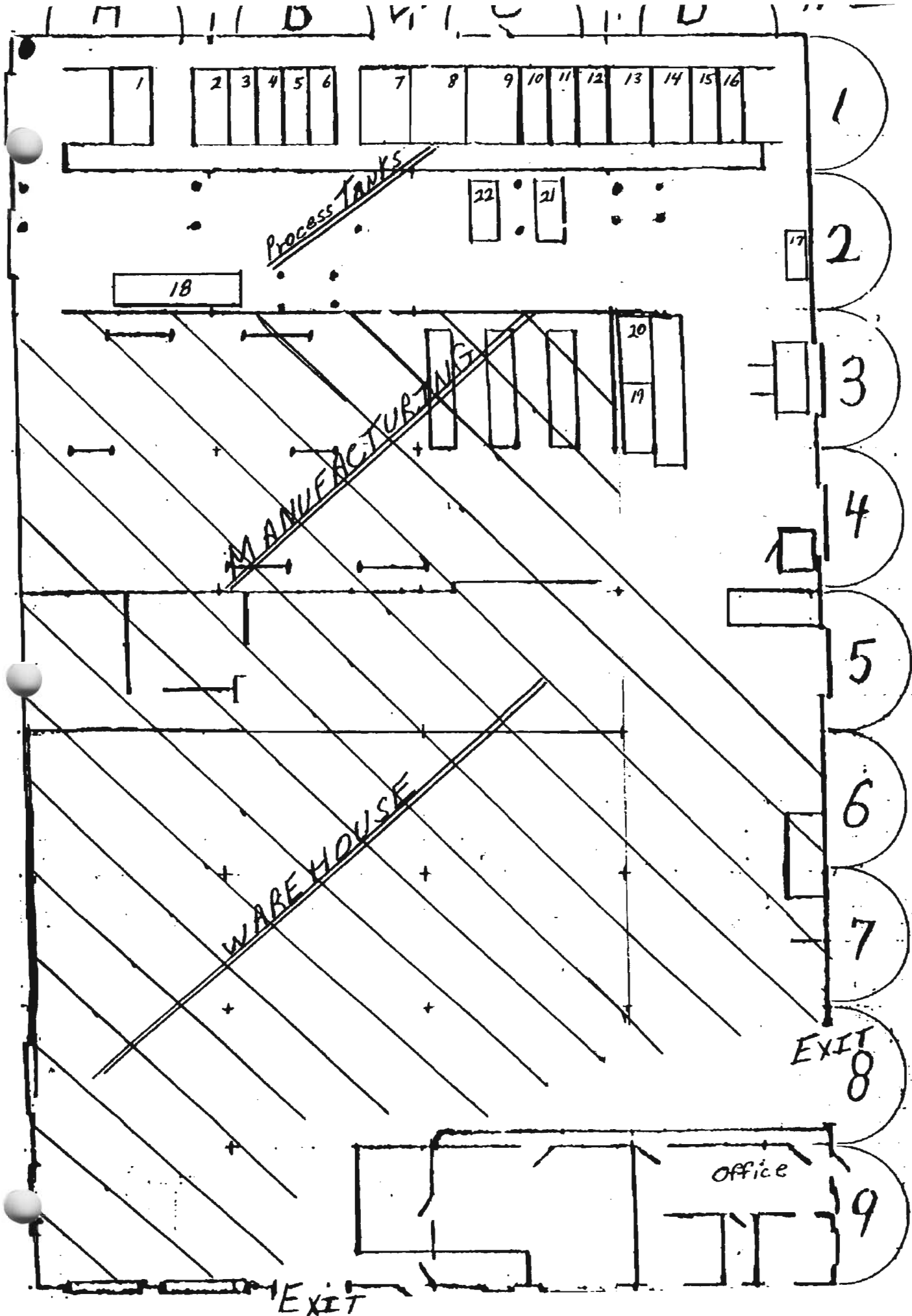
RESPIRATORY PROTECTION (Specify type)			
VENTILATION	LOCAL EXHAUST		
	MECHANICAL (General)	General Ventilation	
PROTECTIVE GLOVES		Rubber	Eye Protection: Face Shield
OTHER PROTECTIVE EQUIPMENT		Rubber Apron	

PRECAUTIONARY LABELING	Store at moderate temperatures in a closed container.
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OTHER HANDLING AND STORAGE PRECAUTIONS	None
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TANK No. WITH DESCRIPTION

TNKNO	MTRLSTNAME.....
1	ALKALIS POWER WASH SOLUTION
2	ALKALIS ELE. CLEAN SOLUTN
3	WATER
4	WATER
5	SULFURIC ACID SOLUTION
6	WATER
7	WATER
8	NICKEL PLATING SOLUTION
9	NICKEL PLATING SOLUTION
10	WATER RINSE, N1 STATIC
11	WATER
12	WATER
13	CHROME PLATING SOLUTION
14	WATER RINSE, Cr STATIC
15	WATER
16	BISULFITE SOLUTION
17	WATER
18	FOR EMERGENCY OR TRANSFER
19	WATER
20	HYDROCHLORIC SOLUTION
21	NICKEL PLATING SOLUTION
22	NICKEL PLATING SOLUTION
23	#2 FUEL OIL
24	SPAIR UTILITY TANK
25	SPAIR TANK
26	SPAIR TANK



APPENDIX C

Berninger Environmental, Inc. - Project Personnel

Berninger Environmental, Inc. - Project Personnel

Mr. Walter Berninger - President

Responsible for: Project coordination, scheduling, material and equipment procurement, and director of field activities. Field analytical equipment maintenance, calibration, operation, and data collection.

Ms. Jill Haimson, PG, CGWP - HydroGeologist/Project Manager/QA Officer

Responsible for: Technical oversight, field analytical equipment maintenance, calibration and operation, data collection and interpretation, report preparation.

Mr. William Schlageter, HydroGeologist/Field Manager/Supplemental QA Officer/Health & Safety Officer

Responsible for: Technical oversight, field analytical equipment maintenance, calibration and operation, data collection and interpretation, support in report preparation.

Ms. Laura Presak - Project Geologist

Responsible for: Field assistance and oversight of contractors, field analytical equipment maintenance, calibration and operation, and data collection.

Joel Meyers - Crew Leader

Responsible for: Geoprobe® operator, sample technician. Senior Driller.

Peter Daniels - Technician

Responsible for: Geoprobe® operator and assistant, sample technician, and equipment decontamination. Driller's assistant.

Ms. Lori Beyers - Data Usability Analysis

Responsible for: Development of the data usability summary report (DUSR) for site samples.

WALTER BERNINGER

e-mail: waltb@optonline.net

SUMMARY

Over thirty five years of "Hands On" professional experience in satisfying client needs in the areas of Environmental Risk Management and Remedial System Design. Founded Berninger Environmental, Inc. in October 1993 after 27 years with a major New York Environmental Contracting/Construction Firm. Involvement in the experimentation and design of numerous state of the art prototype remedial technologies at a time when innovation and experimentation was required to accomplish the desired results, which were not only successful, but cost effective. Some of these included the use of the very first Air Strippers, Carbon Treatment, Positive & Negative Abatement Systems, BioRemedial Technologies and Soil Washing Technologies.

Diverse field experience and management skills (as supervisor for over 40 geologists, engineers and technicians), ability, ascertaining client's needs and, most important, reputation within the industry has been the driving force behind the rapid success and growth of Berninger Environmental, Inc.

PROFESSIONAL EXPERIENCE

Berninger Environmental, Inc.

Started 1993

President/Owner of Berninger Environmental, Inc. since 1993. Responsible for all company sales, project bids, proposals, various report writing and review, design and implementation of construction and maintenance of subsurface soil and groundwater remediation systems in the areas of chemical and petroleum contamination. Continuing to hone skills through various courses, research and implementation of new technologies to provide the best course of action to handle the client's needs with a cost effective approach. The "Hands On" approach is still the best way to oversee work crews, be involved in the actual work being performed and the results of such work. Working personally with all clients from the start to the completion of each project. Keeping abreast of new software to help implement data analysis and field work. Working closely with various NY State, County Agencies and USEPA.

Fenley & Nicol Environmental, Inc.

1966 - 1993

Started career as a Field Technician and advanced into Project Foreman overseeing the construction of complete gasoline stations. Developed the separate Environmental Division of Fenley and Nicol, with a staff of over 40, at the onset of remedial technologies in the Long Island and the Five Boroughs, New York area. Instrumental in the design and implementation of the very first remedial technologies. Environmental Manager overseeing the complete operations and staff of the Environmental Division including, but not limited to, the generation of all sales, contracts, work crews, operations of a fleet of vehicles, inventories, invoicing and various other record keeping duties. Determining the feasibility of remedial alternatives, maintaining the department budget and reviewing financial performance of each project to ensure budgetary compliance.

EDUCATION

- Graduate of MacArthur High School, Levittown 1966
- US Army Paratrooper 1968 - 1970 (Tour in Vietnam and awarded several medals, including the Purple Heart)
- Field GC training course instructed by IVL Technical Sales, Vince Pinnaro
- Numerous attendance at NGWA Conferences and Seminars on Groundwater Pollution and Remediation
- Biostimulation of Aquifers using Oxygen Releasing Compound and other Additives
- Graduate of Dale Carnegie Management Courses

PROFESSIONAL AFFILIATIONS

- National Groundwater Association
- National Haz-Mat Association
- LIA-Long Island Association of Professional Geologists
- LIGRA-Long Island Gasoline Retailers Association
- NCA -National Cleaners Association
- NYSDEC Risk-Based Corrective Action "RBCA for Petroleum-Impacted Sites"
- Member of IBEW Local #25 Electricians Union
- GeoProbe® 100 Club

TRAINING

- OSHA 40-hour Certificate
- OSHA 8-hour Supervisor Certificate
- OSHA Confined Space Entry Certificate
- OSHA Competent Persons in Excavation Certificate
- USEPA, Region I Contractor's Guide to UST Closure
- Licensed NY Well Driller, DEC Registration #1777
- NYS-DEC Sampling Protocol
- Proficient in the operation and data evaluation of various field testing equipment, some of which are:
 - Organic Vapor Analysis
 - Photoionization Detector (PID)
 - Portable Gas Chromatograph
 - Portable Spectrophotometer
- GeoProbe® Training
- Certified Scuba Diver

JILL S. HAIMSON, CGWP, PG

e-mail: jhaimson@preferredenv.com

PROFESSIONAL EXPERIENCE

Jill Haimson has more than 23 years of experience as a Project Director and Senior Hydrogeologist responsible for the technical development and management of environmental projects involving the investigation, delineation and management and/or remediation of surface water, vapor, soil and/or groundwater contamination. Her diversified technical experience includes but is not limited to the following: implementation and management of comprehensive hydrogeologic investigations in diverse geographic regions; broad ranging regulatory compliance activities; environmental impact assessment/land use assessments and associated remediation including supervision and management of staff and subcontractors.

She specializes in the management and implementation of Remedial Investigation/Feasibility Study (RI/FS) (both state and federally mandated); comprehensive due diligence site investigations, remedial design and remedial action programs; interim remedial measures; spill investigation and response; and storage tank (hazardous and non-hazardous) investigations and regulatory compliance. This expertise includes the development and scoping of required field investigatory programs including the identification of requisite site background data, appropriate field investigation technologies, quality assurance/quality control protocols, sampling plans and applicable health and safety provisions. Ms. Haimson has extensive experience in the management and negotiation of projects under administrative consent orders with regulatory agencies under the Navigation Law, NCP, CERCLA, RCRA and other state and federal programs and local county authorities as well as voluntary remediation programs. Ms. Haimson has a strong working knowledge of local, state and federal regulations affecting hazardous and non-hazardous waste materials as well as applicable standards and guidances for ascertaining impacts to soil and groundwater quality. She has also provided expert testimony for numerous properties involving determinations of cost of remedial compliance.

Major projects which Ms. Haimson has supervised and/or had a significant technical role in include, but are not limited to:

- Federal NPL Site Remedial Investigation/Feasibility Study (RI/FS) for a 30 acre Farmingdale, New York Former World War II Aircraft Part Manufacturing Facility, Nassau County, (USEPA Region II ARCS), where she served as Principal Project Director. The project was performed under the authority of the USEPA; a five year comprehensive RI with over 800 environmental samples collected, with on- and off-site feasibility study analysis for full range of contaminated media. Supervised community relations participation and coordinated and presented technical data at public meetings and hearings. Additional RI/FS activities were undertaken for an off-site operable unit for groundwater contamination associated with a NPL site in Melville, NY.

- Phase I/II Site Investigations and Associated Remediation/Environmental Activities at Various Locations - Metro New York for the New York City School Construction Authority, where she served as Hazardous Waste Project Manager for five years as the Authority's Environmental Representative for large scale construction projects and integration of environmental restoration either before or during the construction of new schools;
- Implementation of numerous fuel oil and gasoline site investigations for private clients and insurance company claims. Various gasoline stations and residential and commercial facilities within Westchester, Putnam, Metro New York and Long Island.
- Environmental Compliance Audits, Determination of Monitoring Requirements, preparation of Spill Prevention and Control plans, Management of facility chemical storage and reporting requirements, Due Diligence, Regulatory Interface, and related compliance activities for numerous petroleum retail distributors, inland petroleum terminal, printing direct mail facility, and several bus garage facilities;
- Phase I and II Site Assessment and Remediation Coordination, various financial lenders, Metropolitan New York Area. Project Manager for the completion of over 300 combined Phase I/II and Remediation projects involving commercial-industrial lenders during property transactions, risk mitigation and compliance activities.
- Multi-Property Source Area Investigation, Sea Cliff Industrial Area, Confidential Client, for which she was responsible for the development and implementation of a comprehensive source area investigation in the Sea Cliff Industrial Area as part of a joint legal defense of confidential clients;
- Expert Witness testimony for various legal counsel representing property owners or contract dispute claimants regarding environmental issues.

WORK HISTORY

Principal, Preferred Environmental Services, East Meadow, New York 2001 to present.
Project Director, Freudenthal & Elkowitz, Commack, New York 1996-2001
Principal Project Manager, Roy F. Weston, Carle Place, New York 1991-1996
Section Head, Hydrogeology, H2M Group Melville, New York 1987-1991
Senior Hydrogeologist, Golden StrataServices, Houston, Texas 1982-1986
Geologist, Arizona Department of Water Resources 1980-1982

EDUCATION

B.S., Geology - Queens College, New York

Graduate Studies towards M.S. Hydrogeology - Arizona State University

Specialized Courses - Compliance with RCRA Groundwater Contamination;

Geophysical Well Logging; Bioremediation of Hazardous Waste Site Workshop;

Remediation Alternatives for Contaminated Sediments; Technical Writing Workshop;

Remediation of DNAPL and LNAPL Contaminated Sites, Characterization and

Remediation of DNAPLS, Hazardous Waste Management for the Utility Industry,

ASTM Seminar on Risk-based Corrective Action, Natural Attenuation of

Groundwater Contamination.

REGISTRATIONS & AFFILIATIONS

Registered Professional Geologist in the Commonwealth of Pennsylvania, 1995.

Certified Groundwater Professional (CGWP No. 294), National Association of Groundwater Scientists and Engineers since 1989.

Steering Committee Member of the Long Island Association of Professional Geologists.

Sustainable Long Island Brownfield Sub-Committee Board Member.

Action Committee for the Environment.

Certified Health and Safety Operator at Hazardous Materials Sites (1989-present).

Licensed New York State Property and Casualty Broker, 1996.

WILLIAM SCHLAGETER

e-mail: bschlageter@preferredenv.com

PROFESSIONAL EXPERIENCE

Bill Schlageter has more than 8 years of experience as a Project Manager and Senior Hydrogeologist responsible for technical management of projects involving due diligence, site investigation, delineation and remediation of contamination. Mr. Schlageter has designed and implemented more than 300 Phase I and II Environmental Site Assessments involving complex commercial and industrial properties for a multitude of clients (cellular communications facilities; residential, commercial, scholastic and industrial properties; health care facilities; municipally-owned properties; and vacant land). His expertise includes extensive experience navigating the complex world of regulatory negotiations, effective communication and strategy development with client and clients' attorney and knowledge of state-of-the-art remediation technologies.

His diversified technical experience includes but is not limited to the following: implementation and management of comprehensive site investigations; regulatory compliance activities; environmental impact assessment and remediation including supervision and management of staff and subcontractors. He specializes in the development and scoping of field programs including QA/QC protocols, sampling plans and health and safety control plans; as well as regulatory compliance, negotiations and detailed reporting. Mr. Schlageter has served as a liaison between clients and regulatory authorities, from discovery of release, to regulatory closure. He is the company's Health and Safety Officer in charge of ensuring that all staff have the proper OSHA training and are outfitted with adequate personal protective equipment.

Major projects which Mr. Schlageter has supervised and/or had a significant technical role in include, but are not limited to:

- Phase I, Phase II and remediation coordination of the former 14 acre Roosevelt Raceway property, Westbury, Nassau County under the federal and county programs, prior to re-development;
- Preparation and completion of underground storage tank (UST) removal and/or abandonment activities for over thirty facilities in Nassau, Suffolk, Queens and Kings Counties.
- Assistance in the preparation of a Draft Environmental Impact Statement for proposed Middle School of Sachem Central School District and proposed expansion of Westhampton Beach School District High School;
- Operation and Maintenance of an air-sparge groundwater remediation system of the former Central Islip Psychiatric Center Power Plant under the oversight of the NYSDEC with Spill Closure achieved;

- Soils and sediment remediation of over fifty properties in Nassau and Suffolk Counties under the oversight of the USEPA, NCDH and SCDHS in conjunction with the USEPA Underground Injection Control program;
- Phase I and Phase II Environmental Site Assessments of the former St. Johns Episcopal Hospital in Smithtown, NY, Hempstead General Hospital and South Shore Community Hospital in Bay Shore;
- Phase I Assessments for more than 20 proposed acquisitions of open space and historical preservation by the Suffolk County Planning Department;
- Phase I/Phase II Assessments and remediation management for institutional facilities seeking HUD financing;
- Environmental Compliance Audits, Determination of Monitoring Requirements, preparation of Spill Prevention and Control plans, Management of facility chemical storage and reporting requirements, Due Diligence, Regulatory Interface, and related compliance activities for petroleum retail distributors; and
- Phase I and II Site Assessment and Remediation Coordination, various financial lenders, Metropolitan New York Area. Project Manager for the completion of over 300 combined Phase I/II and Remediation projects involving commercial-industrial lenders during property transactions, risk mitigation and compliance activities.

WORK HISTORY

Preferred Environmental Services, East Meadow, New York 2005 present
Project Manager: Freudenthal & Elkowitz, Environmental Consulting,
Commack, New York 1999-2005

EDUCATION

B.S., Geology, State University of New York at Stony Brook, December, 1998.
A.A., Liberal Arts, Suffolk County Community College, May 1995.

REGISTRATIONS/CERTIFICATIONS

OSHA 40 hour Hazwoper Certification – last updated in 2004
OSHA Confined Space Entry Certification - 2004

COMMITTEES/MEMBERSHIP

Long Island Association of Professional Geologist
Hauppauge Industrial Association Environmental Committee
National Brownfield Association

APPENDIX D

Site Specific Health and Safety Plan

Site-Specific Health and Safety Plan for BCP Work Activities

at

48 SEWELL STREET LLC.

Site No.: C130143

Index No.: W1-1073-05-08

PREPARED FOR



**NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
625 BROADWAY
ALBANY, NEW YORK**

PREPARED BY



BERNINGER ENVIRONMENTAL, INC.

April 2006

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FOREWORD

The Occupational Safety and Health Act (OSHA) implementing regulations of 29 CFR 1910.120 govern hazardous waste operations and emergency response. These regulations require that employers of employees involved in certain specific hazardous waste operations 1) develop and implement a written safety and health Program for employees involved in hazardous waste operations, and 2) that the Program incorporate a site-specific safety and health plan.

Berninger Environmental, Inc. (BEI) has employees conducting activities which fall within the scope of these regulations, and thus, has in place a written safety and health Program as required. Its contents are contained in the BEI HAZWOPER Program Manual. Some activities conducted at the contaminated portion of the 48 Sewell Street Hempstead (48 Sewell Street) property may fall within the scope of these OSHA regulations. Thus, to assure regulatory compliance, this site-specific safety and health plan covering activities conducted at the contaminated portion of the 48 Sewell Street property has been prepared. The Integrated Safety Management System (ISMS) and Environmental Safety, Health, and Quality check lists will be used to define safe work procedures for work conducted in uncontaminated areas of the 48 Sewell Street property.

The regulatory requirements for site-specific safety and health plans are found at 29 CFR 1910.120 (b)(4) and include ten specific elements which are designated with the letters A through J. Each of these elements is addressed in this safety and health plan for the 48 Sewell Street property. Each element is listed below along with the section number where it is addressed in this safety and health plan.

SAFETY AND HEALTH PLAN ELEMENT		SECTION NO. IN THIS PLAN
A)	Safety and health risk hazard analysis	4.0
B)	Employee training assignments and requirements	6.1
C)	Personal protective equipment requirements	4.0, 5.4
D)	Medical surveillance requirements	6.2
E)	Frequency and types of monitoring required	4.0, 5.2
F)	Site control measures	5.3
G)	Decontamination procedures	4.0, 5.6
H)	Emergency response plan	5.7
I)	Confined space entry procedures	none (no confined space entry)
J)	Spill containment program	5.3

1.0

INTRODUCTION AND PROJECT DESCRIPTION

A Brownfield Cleanup Program (BCP) Investigation and Interim Remedial Measure Work Plan (Investigation/IRM Work Plan) has been developed pursuant to the requirements of an executed Brownfield Cleanup Agreement (BCA) dated February 27, 2006 between the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation (DER), and 48 Sewell Street, LLC, the Participant.

The site is located in the Town and Incorporated Village of Hempstead, Nassau County, New York. It is situated on the southeast corner of the intersection formed by Sewell and Mirschel Streets in the Incorporated Village of Hempstead. It has a plan area of 15,000 square feet (1/3 acre).

A BCP Work Plan is directed to determine the nature and extent of site contamination and off-site migration pathways in order to allow a decision by the NYSDEC DER regarding remedial action required to be undertaken at the property.

1.1 PURPOSE

The purpose of an investigation is to:

- Determine the nature and delineate the areal and vertical extent of contamination in all media for each area of concern or that migrate from the site;
- Delineate the surface and subsurface environmental media, including topography and depth to groundwater;
- Identify the source(s) of contamination, migration paths, and actual or potential receptors of contamination on or through air, soil, sediment, groundwater, surface water, utilities, and structures at the site without regard to property boundaries;
- Collect and evaluate all necessary data to evaluate the actual and potential impact to public health and the environment;
- Collect and evaluate information for a Fish and Wildlife Resource Impact Analysis (if necessary);
- Collect data to facilitate selection and design of remedial action alternatives; and
- Identify collected data needed for monitoring natural attenuation, potential feasible cleanup technologies and presumptive remedies.

This Site-Specific Health and Safety Plan (HASp) addresses the safety aspects of the spectrum of work activities to be conducted at the contaminated area(s). Activities at the contaminated area (but not the uncontaminated background area) fall under the scope of Code of Federal Regulations, 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response (HAZWOPER)*. The purpose

of this document is to establish overall site-specific health and safety guidelines to be followed by all personnel conducting work at this site regardless of organizational affiliation. Work will be performed in accordance with requirements, as stipulated.

The levels of protection and procedures specified in this HASP are based on the best information available from historical data and recent evaluations of the area. Therefore, these recommendations represent the minimum health and safety requirements to be observed by all personnel engaged in work at the site. Unforeseeable site conditions, changes in scope of work, or hazardous conditions not previously considered will warrant a reassessment of the protection levels and controls stated. Refer to Section 5.1 for requirements pertaining to field modifications and changes to the HASP.

2.0 SITE ORGANIZATION AND COORDINATION

Subsurface Investigation activities will be performed by BEI personnel. All work is performed under the direction of the Site Supervisor and support staff, all of whom are BEI employees.

The following section describes the organizational structure for the subsurface investigation. Key personnel and their responsibilities are listed. Mr. Walter Berninger will be the Project Manager (PM), Ms. Jill Haimson will be the Site Supervisor (SS), Mr. William Schlageter will serve as the Field Manager/Site Safety and Health Officer (SSHO), and Mr. Joel Meyers will act as the Emergency Response Coordinator (ERC).

2.1 SITE SAFETY AND HEALTH OFFICER

The SSHO advises the Site Supervisor on safety and health issues and conducts briefings prior to initiation of site activities. The SSHO assesses the potential for worker exposures to hazardous agents, recommends appropriate hazard controls for protection of task site personnel, and will require personnel to obtain immediate medical attention in the event of a work-related injury or illness. The SSHO ensures any necessary monitoring of potential chemical hazards is performed, reviews the effectiveness of monitoring and personal protective equipment, and recommends upgrades or downgrades in protective safety and health measures. The SSHO ensures that appropriate fall protection measures are available and that needed work permits such as Radiological Work Permits (RWPs) are obtained. The SSHO notifies the Office of Radiation Protection when radiological support is required. The SSHO has stop work authority and advises emergency response personnel of an emergency. The SSHO authorizes the return to work following resolution of any safety and health hazards or other stop work issues. The SSHO ensures that this HASP is revised and approved if there are changes in site conditions or tasks. The SSHO will be available for consultation when required and will be aware of project-related work occurring on-site.

2.2 SITE SUPERVISOR

The Site Supervisor has primary responsibility for directing and managing all subsurface investigation field activities, including coordination with any support organizations. The Site Supervisor ensures that all on-site project personnel meet the required level of training, have reviewed the HASP, and are instructed in safe work practices. The Site Supervisor also ensures that a qualified SSHO is designated, maintains a current copy of the HASP, and documents field changes to the HASP in the project logbook. In addition, the Site Supervisor and staff perform oversight of field activities, maintain awareness of site operations, and ensure that all project personnel adhere to ES&H requirements in order to prevent potential accidents from occurring.

The Site Supervisor is responsible for ensuring that the following five core functions of the Integrated Safety Management System (ISMS) are fulfilled appropriately:

- Define the work, roles and responsibilities. Allocate resources to ensure that research goals are balanced with safe work practices.

- Identify and analyze the hazards using the ES&H evaluation, consultation with subject matter experts, material safety data sheet information, Work Smart Standards (WSS), lessons learned by other Principal Investigators (PIs) and staff, and other resources.
- Develop and implement hazard controls tailored to the work being performed.
 - ▶ Resources include BEI staff, subject matter experts, the Hazardous Materials Inventory System, ESD Chemical Hygiene Plan, Division and project procedures, Training Needs Assessment process, Laboratory Operating Manuals, Laboratory Stewards, and Lessons Learned and Alerts.
 - ▶ Examples of actions and tools include optimization of engineering controls and procedural approaches with training, HAZCOM job-specific training, job pre-briefings, compliance-based and project-specific training, ES&H permits (e.g., RWPs, Lockout/Tagout process), and protective equipment.
- Perform work within controls to ensure the work is done safely:
 - ▶ Communicate expectations to project staff.
 - ▶ Ensure that the controls identified in the ESH&Q evaluation and this HASP are carried out.
 - ▶ Ensure opportunity for procedure modification to respond to unanticipated situations.
 - ▶ Stop work if imminent danger exists.
- Provide feedback and continuous improvement:
 - ▶ Solicit feedback from project staff regarding ESH&Q issues and act on that input.
 - ▶ Communicate concerns to and seek help from supervisors and the ESH&Q group.
 - ▶ Reallocate resources to address issues that arise.
 - ▶ Ensure safety meetings and site briefings are performed.

2.3 PRINCIPAL INVESTIGATORS AND FIELD PROJECT PERSONNEL

PIs and field project personnel involved in onsite operations are responsible for understanding the intent of the principles of Integrated Safety Management and are to be knowledgeable of the processes in place to satisfy the intent of Integrated Safety Management.

Define the Scope of Work

- Understand the expectations they are to meet in their particular work assignment.
- Understand the responsibilities of the Site Supervisor and SSHO.
- Provide documentation of training to the Site Supervisor.

Identify and Analyze the Hazard

- Notify the SSHO of any special medical conditions (i.e., allergies, diabetes, etc.).
- Actively participate in identification of hazards prior to beginning work.
- Ensure that potential work hazards have been evaluated by subject matter experts and are accounted for in all work practices.

Develop and Implement Hazard Controls

- Seek the help of the SSHO and other subject matter experts, as appropriate, to analyze the hazards.
- Ensure that control strategies are developed and implemented, as appropriate, before work begins.
- Ensure safety measures are incorporated into activities (i.e., through HASP addendums or amendments, work aides, or standard operating procedures).

Perform Work Within Controls

- Perform only those tasks that they believe they can do safely.
- Meet the responsibilities and safely perform the tasks that are delegated to them.
- Take all reasonable precautions to prevent injury to themselves and to their fellow employees; be alert to potentially harmful situations.
- Suspend work if unexpected concerns arise and modify plans to address concerns before resuming work.
- Comply with the work plan and HASP as well as postings and rules at the project site.

Provide Feedback and Continuous Improvement

- Keep the SSHO and Site Supervisor informed of any issues, problems, or concerns regarding all aspects of their work.
- Notify appropriate management personnel or the facility point of contact of any unsafe condition, violation, noncompliance, or environmental threat discovered in a facility.
- Report to the SSHO any changes in site conditions that may affect safety and health.

- Immediately notify the SSHO of symptoms or signs of exposure potentially related to any chemical, physical, or biological hazards present at the site and immediately report any accidents, injuries, and/or unsafe conditions to the SSHO.
- If unsafe conditions develop, task site personnel are authorized and expected to stop work and notify the SSHO and Site Supervisor of the unsafe condition.

3.0 INTEGRATED SAFETY MANAGEMENT SYSTEM (ISMS)

The ISMS process systematically integrates safety into management and work practices at all levels so missions are accomplished while protecting the public, the worker, and the environment. Direct involvement of workers during the development and implementation of safety management systems is essential for success. DOE requires that the principles of ISMS be implemented for all ORNL activities. Therefore, all BEI personnel are expected to incorporate the following basic ISMS core functions during all work activities:

- Defining the scope of work;
- Identifying and analyzing hazards associated with the work;
- Developing and implementing hazard controls;
- Performing work activities within these controls; and
- Providing feedback on the adequacy of the controls to continue improving safety management.

4.0 TASK SPECIFIC HAZARD EVALUATION AND CONTROLS

The purpose of this Subsurface Investigation hazard evaluation is to identify and assess potential hazards that personnel might encounter and to prescribe methods of hazard control. Historical site data provided in Appendix A gives the results of chemical analyses in subsurface soils and groundwater at the 48 Sewell Street property. Material Safety Data Sheets (MSDS) for chemicals that are likely to be handled when conducting field work are included in Attachment B.

A description of sampling procedures and the activities to be conducted at the 48 Sewell Street property is described below.

4.1 WATER LEVEL MEASUREMENTS

Task Description: Manual water level measurements will be collected from any monitoring wells installed in order to determine current depth to groundwater in the area. These measurements are taken by lowering an electronic water level sounder down the well. As the sounder is brought out of the well the tip of the sounder that has been submerged is rinsed with distilled water to rinse off the groundwater. The rinse water is allowed to drip back down into the well.

Equipment and Materials: Equipment includes water level sounder.

Task Hazards and Controls:

- **Chemical and Radiological Hazards**

- ▶ **Groundwater Contact:** Based on previously obtained sample data, the risk of chemical or radiological surface water samples is minimal. However, direct contact with contaminated materials should be avoided; therefore, disposable latex or nitrile gloves and safety glasses will be worn when conducting groundwater monitoring and during the handling of sample tubes to prevent eye and skin contact.
- ▶ **Downhole equipment:** Rinse downhole equipment with distilled water as it is brought out of the well.

Physical Hazards

- ▶ **Tripping/Falling:** Precautions should be taken to avoid trip, slip, and fall accidents when climbing irregular or slippery surfaces. Before changing location visually survey the area for slippery surfaces and tripping hazards.
- ▶ **Heat/Cold Stress:** Wear clothing appropriate for environmental and weather conditions. Temperature extremes may be a hazard for consideration depending on the timing of the activity. Refer to Section 5.5 for discussion of recognition of symptoms and controls.

- **Biological/Vector Hazards**
 - ▶ Ticks/Snakes/Pathogens: Be cautious of snakes, and vector carriers such as ticks. Check clothing and skin for ticks after walking in brush. Wash hands before eating and drinking.
- **Personal Protective Equipment Required to Address General Site Hazards**
 - ▶ Level of Protection: D
 - ▶ Protective Clothing: BEI-issued work clothes or disposable tyvek
 - ▶ Head Gear: Safety glasses
 - ▶ Gloves: Latex or nitrile (when conducting groundwater sampling or handling corrosive or oxidizing reagents)
 - ▶ Footwear: Sturdy work shoes
- **Monitoring Requirements**
 - ▶ None

4.2 FIELD SAMPLING AND ANALYSIS OF GROUNDWATER

Task Description: Procedures for field sampling and analysis of groundwater are described in the 48 Sewell Street Investigation Work Plan. Groundwater will generally be sampled with a peristaltic pump. Slow purge techniques will be used in order to reduce the disturbance caused by removal of large volumes of water from the system. Field parameters will be monitored until stable groundwater chemistry (e.g. specific conductance, pH, Eh, temperature, dissolved oxygen) readings are obtained on the Myron 6P Ultrameter among others. The purge water will be collected in DOT approved 55-gallon drums, if deemed to be necessary or discharged in proximity to the wellhead with regulatory approval.

Samples will be handled and transported according to regulatory requirements and procedures outlined in the 48 Sewell Street Investigation Work Plan. Samples will be preserved and stored as required by the analytical protocols (e.g. cooled, preservative added). Storage on site may occur for short periods of time in ice chests containing “blue ice” but will be quickly transferred to refrigerator storage in the field laboratory or at the fixed base laboratory at the appropriate temperatures. All storage of contaminated samples will follow procedures and relevant regulations.

Equipment and Materials: Sampling equipment includes sampling tubing which is dedicated for each sample collected; peristaltic pump; filters and sample containers (for collecting samples); HACH meter and test kits (see Appendix B for reagent MSDSs). Some samples may be preserved with a few drops of nitric, hydrochloric or sulfuric acid. Calibration standards including pH and conductivity are also used.

Task Hazards and Controls:

- **Chemical and Radiological Hazards**

- ▶ Groundwater Contact: Based on previously obtained sample data (only available for soils or groundwater), the risk of chemical exposure from short-term exposure to groundwater is minimal. However, direct contact with contaminated materials should be avoided, therefore, disposable latex or nitrile gloves and safety glasses will be worn when conducting groundwater and surface water sampling to prevent eye and skin contact.
- ▶ Reagent Contact: Corrosive or oxidizing reagents pose a contact hazard. To prevent eye and skin contact when corrosive or oxidizing reagents are used disposable latex or nitrile gloves and safety glasses will be worn.

- **Physical Hazards**

- ▶ Tripping/Falling: Precautions should be taken to avoid trip, slip, and fall accidents when climbing irregular or slippery surfaces. Before changing location visually survey the area for slippery surfaces and tripping hazards.
- ▶ Heat/Cold Stress: Wear clothing appropriate for environmental and weather conditions. Temperature extremes may be a hazard for consideration depending on the timing of the activity. Refer to Section 5.5 for discussion of recognition of symptoms and controls.

- **Explosion Hazards**

- ▶ Gas cylinders: Pressurized gas cylinders (if any) will be transported and handled in accordance with applicable Department of Transportation guidance and regulations. Care will be taken to secure the cylinders upright during transport to ensure they are not damaged. Cylinders will also be secured at the site so they will not tip over during the injection process.

- **Biological/Vector Hazards**

- ▶ Ticks/Snakes/Pathogens: Be cautious of snakes, and vector carriers such as ticks. Check clothing and skin for ticks after walking in brush. Wash hands before eating and drinking.

- **Personal Protective Equipment Required to Address General Site Hazards**

- ▶ Level of Protection: D
- ▶ Protective Clothing: BEI-issued work clothes or disposable tyvek
- ▶ Head Gear: Safety glasses

- ▶ Gloves: Latex or nitrile (when conducting groundwater sampling or handling corrosive or oxidizing reagents)
 - ▶ Footwear: Sturdy work shoes
- **Monitoring Requirements**
 - ▶ Air Quality: Air monitoring with an organic vapor analyzer or other suitable instrument will be performed during all groundwater or surface water sampling activities. A VOC ambient air monitoring result of 3ppm will trigger a warning response. If a detection of 5ppm VOC in ambient air is detected, the SSHO will suspend work and instruct the workers to move to a safe zone until such time the work zone is tested safe.

4.3 FIELD SAMPLING AND ANALYSIS OF SOIL/SOIL GAS

Task Description: Procedures for field sampling and analysis of subsurface soils, soil gas, and soil vapors are described in the 48 Sewell Street Investigation Work Plan. Soil samples and soil gas samples will generally be obtained by a discrete sampler by hand, Geoprobe direct push sampling rig or Hollow Stem Auger Drilling Rig. This method ensures dedicated, undisturbed samples protected in a PVC liner or split spoon sampler. Sediment samples will be collected via decontaminated stainless steel sludge or dredge sampler. Field testing for total volatile organic compounds (VOCs) in the breathing zone (work zone), as well as the downwind perimeter will be monitored by an HNu or Minirae portable Photoionization Detector (PID). The air monitoring action levels using PID readings cited in Section 8.0 - Community Air Monitoring Plan will be used to safeguard workers and observers during the implementation of the field investigation program. Discarded soil will be placed back in the bore hole if approved by the regulators.

Samples will be handled and transported according to regulatory requirements and procedures outlined in the 48 Sewell Street Investigation Work Plan. Samples will be preserved and stored as required by the analytical protocols (e.g. cooled, preservative added). Storage on site may occur for short periods of time in ice chests containing “blue ice” but will be quickly transferred to refrigerator storage in the field laboratory or at the fixed base laboratory at the appropriate temperatures. All storage of contaminated samples will follow procedures and relevant regulations.

Equipment and Materials: Sampling equipment includes a Geoprobe direct push sampling rig for exterior sample locations and a weighted slide hammer for interior sample collection. A PVC liner is dedicated for each soil sample collected. Soil gas samples will be collected directly into and containerized in dedicated stainless steel summa canisters. A stainless steel sludge or dredge sampler will be used to collect discrete sediment samples from select areas along the adjoining creek.

Task Hazards and Controls:

- **Chemical and Radiological Hazards**

- ▶ Soil Contact: Based on previously obtained sample data, the risk of chemical exposure from short-term exposure to soil samples is minimal (See Appendix A). However, direct contact with contaminated materials should be avoided, therefore, disposable latex or nitrile gloves and safety glasses will be worn when conducting soil and sediment sampling to prevent eye and skin contact.

- **Physical Hazards**

- ▶ Tripping/Falling: Precautions should be taken to avoid trip, slip, and fall accidents when climbing irregular or slippery surfaces. Before changing location visually survey the area for slippery surfaces and tripping hazards.
- ▶ Heat/Cold Stress: Wear clothing appropriate for environmental and weather conditions. Temperature extremes may be a hazard for consideration depending on the timing of the activity. Refer to Section 5.5 for discussion of recognition of symptoms and controls.

- **Biological/Vector Hazards**

- ▶ Ticks/Snakes/Pathogens: Be cautious of snakes, and vector carriers such as ticks. Check clothing and skin for ticks after walking in brush. Wash hands before eating and drinking.

- **Personal Protective Equipment Required to Address General Site Hazards**

- ▶ Level of Protection: D
- ▶ Protective Clothing: BEI-issued work clothes or disposable tyvek
- ▶ Head Gear: Safety glasses
- ▶ Gloves: Latex or nitrile (when conducting groundwater sampling or handling corrosive or oxidizing reagents)
- ▶ Footwear: Sturdy work shoes

- **Monitoring Requirements**

- ▶ Air Quality: Air monitoring with an organic vapor analyzer or other suitable instrument will be performed during all soil sampling activities. A VOC ambient air monitoring result of 3ppm will trigger a warning response. If a detection of 5ppm VOC in ambient air is detected, the SSHO will suspend work and instruct the workers to move to a safe zone until such time the work zone is tested safe.

4.4 GEOPROBE BORINGS/MONITORING WELL INSTALLATION/SOIL REMOVAL

Task Description: Probe rods are installed by using a Geoprobe direct push rig which hydraulically pushes or hammers steel drive pipe into the ground (please refer to the 48 Sewell Street Investigation Work Plan for a more complete description). Sections of probe rods are added (threaded attachment) until the desired depth is reached. A sampling tool is opened to obtain the soil or groundwater which then is retrieved. If desired, a small diameter well can then be constructed inside the hollow pipe as it is withdrawn from the ground or in the uncased hole after the drive pipe is removed completely. The drive point is left in the ground. Sampling equipment and probe rods are cleaned and decontaminated by detergent wash and potable water rinse. Hollow-stem augers and other drilling methods may also be used to install groundwater monitoring wells and/or to collect soil samples. These methods produce drill cuttings that will be collected with discarded soil back in the bore hole if approved by the regulators.

Soil will be removed via backhoe/trackhoe with operator. BEI personnel will be in charge of directing soil removal and screening/sampling of soil column and stockpiles.

Equipment and Materials: Equipment includes Geoprobe rig, drill rigs and associated equipment and support vehicles such as air compressors, pressure washers, generators, probe rod, and well construction materials. Backhoe, Trackhoe, shovels, augers, etc.

Task Hazards and Controls:

- **Chemical and Radiological Hazards**

- ▶ **Groundwater Contact:** Based on previously obtained sample data, the risk of chemical exposure from short-term exposure to groundwater samples is minimal. However, direct contact with contaminated materials should be avoided, therefore, disposable latex or nitrile gloves and safety glasses will be worn when conducting groundwater sampling to prevent eye and skin contact.
- ▶ **Soil/cuttings Contact:** Workers could be exposed to contaminated soil remaining on the probe rods and/or backhoe buckets as they are raised out of the ground. This hazard will be minimized by screening the drive pipe as it is raised out of the hole. Prior to removal from the site, all drill pipe, drill cuttings, and any core samples collected will be scanned for VOC contamination. An exclusion area will be set up around the drill rig to prevent entry by personnel that are not trained or wearing proper protection. Dust suppression will be implemented based upon community air monitoring. The same criteria will be used for on-site controls.

Physical Hazards

- ▶ **Tripping/Falling:** Precautions should be taken to avoid trip, slip, and fall accidents when climbing irregular or slippery surfaces. Before changing location visually survey the area for slippery surfaces and tripping hazards. Operators will avoid

- accessing locations greater than six feet above ground. If it becomes necessary to perform work on the drill mast, the mast will be lowered prior to performing work.
- ▶ Heat/Cold Stress: Wear clothing appropriate for environmental and weather conditions. Temperature extremes may be a hazard for consideration depending on the timing of the activity. Refer to Sect. 5.5 for discussion of recognition of symptoms and controls.
 - ▶ Abrasions, Scrapes and Sprains: Always use appropriate care when using tools and mechanical equipment. Maintain awareness of body and limb location and think ahead to probable body and object path before applying force to tools. Wear protective clothing as listed below. Drill rods, augers, and tools will be properly stowed and restrained during transport. Support rails will have adequate strength to hold tools. Operators will avoid placing body parts at points of operation and/or pinch points.
 - ▶ Lifting: Use your legs to lift heavy objects, avoid awkward positions and twisting of the body and ask for assistance with awkward or heavy loads.
 - ▶ Mechanical Hazard: Working with drill rigs can result in injuries from equipment dislodging and striking unsuspecting personnel, and from impacts due to flying objects or overturning vehicles. Therefore, follow these precautions:
 - ✓ Drill rig/Backhoe will be inspected visually before each use. If inspection reveals unsafe conditions, rig will be removed from service and repaired. Only qualified individuals shall make repairs to the drill rig.
 - ✓ Drill rig cabs/Backhoe will be kept free of all nonessential items and all loose items will be secured.
 - ✓ Drill rigs/Backhoe will be provided with necessary safety equipment.
 - ✓ Drill rig/Backhoe shall be properly maintained per manufacturer's recommendations. Only qualified individuals shall make repairs to the drill rig.
 - ✓ Parking brakes will be set before shutting off any heavy equipment or vehicle.
 - ✓ High pressure hoses will be secured to prevent "whipping" in the event of a failure.
 - ✓ Only competent individuals shall be allowed to operate the drill rig.
 - ✓ To minimize overhead hazards, wire cables will be inspected by the rig operator prior to use. Any frayed, kinked, marked, or otherwise damaged cables will be taken out of service. Operator and other personnel in area during lifting of tools onto rig mast shall position themselves so that they are not under the load and/or between equipment.
 - ▶ Electrical Hazard: Of special concern to drilling operations is the possibility for conducting electricity through the drilling tower/backhoe through either inadvertent contact with underground or overhead power lines, or by lightning strikes. In addition, some of the equipment used is operated by electricity. Unless safe work practices are observed, serious injury or death can result. Therefore, observe the following precautions:
 - ✓ Treat all electrical wires and circuits as 'live' unless certain they are not.
 - ✓ Always maintain a firm work base to prevent a loss of balance and potential

fall onto energized busses or parts (which should be covered with a good electrical insulator such as a rubber blanket).

- ✓ All tools should have insulated handles, be electrically grounded, or double insulated.
- ✓ Do not drill within 10 ft of an overhead power line that is ≤ 50 kV (or within 50 ft for > 50 kV) unless power to the line is first turned off for the duration of the drilling.
- ✓ Ground fault circuit interrupters will be used for electrical extension cords in use between a fixed electrical system (permanent outlet) and a tool.
- ✓ Prior to drilling have site representatives delineate location of underground power lines and other utilities.
- ✓ Do not drill within 25 ft of any known underground power line; also allow a reasonable separation distance from other site utilities.
- ✓ Maintain a watch for electrical storms. If electrical activity appears to be imminent, cease drilling operations and evacuate the area around the drill rig. If time permits do not leave auger or drill string in the borehole.
- ▶ Noise: Unprotected exposure of site workers to noise from drilling activities can result in noise induced hearing loss. Hearing protection must be worn where noise levels are greater than 85 dBA. The SSHO will ensure that either ear muffs or disposable foam earplugs are made available to all personnel and are used by the personnel in the immediate vicinity of the drill rig.

- **Biological/Vector Hazard**

- ▶ Ticks/Snakes/Pathogens: Be cautious of snakes, and vector carriers such as ticks. Check clothing and skin for ticks after walking in brush. Wash hands before eating and drinking.

- **Personal Protective Equipment Required to Address General Site Hazard**

- ▶ Level of Protection: D
- ▶ Protective Clothing: BEI-issued work clothes or disposable tyvek
- ▶ Head Gear
 - Hard hat required for drill rig operations; not required for steam cleaning and washing
 - Safety glasses or goggles required during drilling and decon operations
 - Ear muffs or disposable foam earplugs required in the vicinity of drill rig
- ▶ Gloves: Leather work gloves over nitrile or latex gloves during drilling or decon operations
- ▶ Footwear: Steel-toed work shoes

- **Monitoring Requirements - Air Quality**

- ▶ VOCs: Air monitoring with a PID or other suitable instrument will be performed

during all well installation activities. A VOC ambient air monitoring result of 3ppm will trigger a warning response. If a detection of 5 ppm VOC in ambient air is detected, the SSHO will suspend work and instruct the workers to move to a safe zone until such time the work zone is tested safe.

- ▶ Particulate Monitoring, Response Levels, and Actions: Particulate concentrations will be monitored continuously at temporary particulate monitoring stations at the downwind perimeter of the immediate work area (i.e., the exclusion zone) or as otherwise specified. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.
- ▶ If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.
- ▶ If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

5.0 OTHER HEALTH AND SAFETY PLAN ELEMENTS

5.1 REVISIONS/ MODIFICATIONS TO THE HASP

The following actions will warrant revision and approval of this plan by the appropriate health and safety disciplines:

- Change in tasks (or previously unidentified tasks) that could impact employee health and safety.
- Changes in hazards (unknown or not previously addressed) which require a significant change in, or addition to, respiratory protection (as defined in exemptions to the plan modifications), physical/barrier protection features, or other engineering controls.
- Occurrences as defined by DOE Order 232.1A.

5.1.1 Modifications allowed

The SSHO may upgrade PPE. These changes must be documented in the field logbook. The change and reason or evidence for the change must also be documented in the field logbook. For upgrades to include respiratory protection (including air-purifying and supplied air) for previously unidentified non-radiological issues or contaminants such as VOCs, the appropriate health and safety disciplines must be contacted. The SSHO will approve and document changes in PPE in the field logbook. Upgrades to include respiratory protection will require the SSHO to ensure workers have 40 Hour HAZWOPER Training and to assess any additional medical surveillance requirements.

5.2 MONITORING

Historical site data indicate that chemical exposure of site personnel is not a significant concern within the scope of this project. However as only limited site characterization has been performed, monitoring will be required for all field activities. Site monitoring requirements may change based on site conditions. All changes must be documented in the site logbook.

5.3 SITE AND SPILL CONTROL

Site access is available from public roads through the area and therefore will not be controlled to the general site. Based on the anticipated levels of contamination, formal barricaded work zones will not be established unless new monitoring data indicate the need for such barriers. An exclusion zone may be required for drilling operations and other field activities if required to reduce the accidental spread of hazardous substances from contaminated areas to clean areas. The SSHO will determine, as needed, the locations of the support zone, contamination reduction zone, and the exclusion zone. Personnel accessing the zones must meet access requirements as stated in this plan.

5.4 PERSONAL PROTECTIVE EQUIPMENT

Level D protection is normally used when the potential for personnel contamination is low, as is the case with this project. Level D protection will include BEI-furnished clothing or disposable tyvek. Details and special requirements have been covered in the hazard control sections of the specific tasks in Sect. 4 above. Unexpected new hazards will require a reassessment of the specified PPE.

5.5 TEMPERATURE EXTREMES AND SITE CHARACTERISTICS

The effect of temperature extremes on personnel is a primary hazard associated with the activities conducted at the site. Symptoms and controls related to temperature extremes are considered in detail in this section.

Field activities conducted during the summer or winter pose a hazard because of temperature extremes. Since the project site is located in a relatively open area, workers shall dress appropriately for environmental conditions, wearing clothing that provides reasonable protection against winter cold and summer sun. Although extreme physical exertion will not be likely within the scope of this project, during hot weather workers are encouraged to be aware of their own symptoms of heat stress (headaches, dizziness, increased heart rate), to drink plenty of water, and to take breaks as needed. Heat stress symptoms, remedies, and monitoring are discussed in Section 5.5.1. Cold exposure effects are discussed in Section 5.5.2.

Workers are also encouraged to apply insect repellent and/or sunscreen as needed prior to field activities. Workers should exercise caution by visually inspecting their immediate area of activity for presence of poisonous/harmful plant, insect, and animal species as well as any hazard resulting from previous human activity.

5.5.1 Effects and Prevention of Heat Stress

If the body's physiological processes fail to maintain a normal body temperature because of excessive heat, a number of physical reactions can occur. They can range from mild symptoms such as fatigue, irritability, anxiety, and decreased concentration, dexterity, or movement, to death.

Heat-related health concerns can include the following:

- **Heat rash:** Caused by continuous exposure to heat and humid air and aggravated by chafing clothes. Decreases ability to tolerate heat and is a nuisance.
- **Heat cramps:** Caused by profuse perspiration combined with inadequate fluid intake and chemical replacement, particularly salts. Signs include muscle spasm and pain in the extremities and abdomen.
- **Heat exhaustion:** Caused by increased stress on various organs to meet increased demands to cool the body. Signs include shortness of breath; increased pulse rate (120-200 beats per minute); pale, cool, moist skin; profuse sweating; dizziness; and lassitude.
- **Heat stroke:** Is the most severe form of heat stress. Body must be cooled immediately to prevent severe injury and/or death. Signs include red, hot, dry skin; no perspiration; nausea;

dizziness and confusion; strong, rapid pulse; and possibly coma. Medical help must be obtained immediately.

Medical attention must be obtained for the more serious symptoms of heat stress. One or more of the following methods are recommended to help reduce the potential for heat stress:

1. Provide plenty of liquids. To replace body fluids (water and electrolytes) lost due to sweating, use a 0.1 percent saltwater solution, more heavily salted foods, or commercial mixes. The commercial mixes may be preferable for those employees on a low-sodium diet.
2. Provide cooling devices to aid natural body ventilation. These devices, however, add weight, and their use should be balanced against worker efficiency.
3. Wear long cotton underwear, which acts as a wick to help absorb moisture and protect the skin from direct contact with heat-absorbing protective clothing.
4. Install mobile showers and/or hose-down facilities to reduce body temperature and cool protective clothing.
5. In extremely hot weather, conduct non-emergency response operations in the early morning or evening.
6. Ensure that adequate shelter is available to protect personnel against sun, heat, or other adverse weather conditions that decrease physical efficiency and increase the probability of accidents.
7. In hot weather, rotate workers wearing protective clothing.
8. Maintain good hygiene frequently changing clothing and showering daily. Clothing should be permitted to dry during rest periods. Workers who notice skin problems should immediately consult medical personnel.

5.5.2 Cold Exposure

Persons working outdoors in temperatures at or below freezing may suffer from cold exposure. During prolonged outdoor periods with inadequate clothing for protection, the effects of cold exposure may occur even at temperatures well above freezing. Cold exposure may cause severe injury due to freezing of exposed body surfaces (frostbite), or profound generalized cooling (hypothermia), possibly resulting in death. Areas of the body which have high surface area-to-volume ratios such as fingers, toes, and ears are the most susceptible to frostbite.

Local injury resulting from cold is included in the generic term frostbite. There are several degrees of damage. Frostbite of the extremities can be categorized into:

- **Frost nip or incident frostbite:** characterized by sudden blanching or whitening of skin.
- **Superficial frostbite:** skin has a waxy or white appearance and is firm to the touch, but tissue beneath is resilient.
- **Deep frostbite:** tissues are cold, pale, and solid; extremely serious injury.

Systemic hypothermia, or lowering of the core body temperature, is caused by exposure to freezing or rapidly dropping temperatures. Symptoms are usually exhibited in five stages: 1) shivering and

loss of coordination; 2) apathy, listlessness, sleepiness, and (sometimes) rapid cooling of the body to less than 95°F (35°C); 3) unconsciousness, glassy stare, slow pulse, and slow respiratory rate; 4) freezing the extremities; and 5) death.

5.6 DECONTAMINATION

BEI will maintain on-site decontamination equipment such as a steam cleaner, potable water, alconox, pressure washer, water reservoir tank, and a wastewater transfer system and receiving tank. Groundwater, soil sampling, and drilling equipment will be decontaminated between each boring, well installation, sampling event, and prior to mobilization on or off site.

Decontamination of personnel shall be conducted only in the unexpected event that contamination is detected. At a minimum, personnel who have conducted work at the site will wash their hands prior to eating or drinking. BEI personnel shall supervise, assist, and document incidents involving personnel contamination.

5.7 EMERGENCY PREPAREDNESS/RESPONSE

All emergency services can be reached by dialing 911 from any facility or mobile telephone. Access to phones and/or radios will be provided to onsite personnel. The Emergency Response Coordinator (ERC) will coordinate all emergency response operations.

Should evacuation from the site become necessary, the evacuation route to the hospital is shown in Figures 2 & 2a. Emergency telephone numbers are given below.

Emergency Telephone Numbers

FIRE / POLICE 911

Village of Hempstead Fire Department
Fire Marshal Nassau County 571-6400
Haz Mat Division (516) 572-1092

Nassau County Police Department - (516) 489-6000
Village of Hempstead Police Department - 911
Village of Hempstead Water & Sewer (516) 489-3400

Mercy Medical Center
1000 N. Village Avenue
Rockville Centre, New York
(516) 705-2525

Nassau University Medical Center
2201 Hempstead Turnpike
East Meadow, New York 11554
Emergency Services - (516) 571-2672

6.0 TRAINING/MEDICAL REQUIREMENTS

6.1 SITE-SPECIFIC HAZARD COMMUNICATION AND ACCESS BRIEFING

Since different training requirements may be needed based on the nature of different tasks to be performed, specific training requirements may be identified. However, generally applicable training requirements are presented here. Visitors not entering any exclusion zone or contamination reduction zone who have very limited potential for exposure to contaminants require:

1. Site-specific hazard communication and access briefing.

All project personnel performing hands-on work that could potentially expose them to hazardous substances, safety, or health hazards will meet the following training requirements:

2. General Employee Training (GET)
3. 40 hour HAZWOPER (SARA/OSHA) training, or equivalent (Note: for certain types of low risk work, 24 hour training is acceptable)
4. Current HAZWOPER 8-hour Annual Refresher (as applicable)
5. Site-specific hazard communication and access briefing

In addition, the Site Safety and Health Officer requires:

6. 8-hour HAZWOPER Supervisor training

Personnel involved in service or maintenance work on energized equipment require:

7. Lockout/Tagout training

Prior to beginning work at the project site, all personnel will review this Health and Safety Plan and sign the training acknowledgment form (Appendix C). The site-specific hazard communication and access briefing is documented in the project logbook. If site conditions change, or other hazards are detected, the training and access requirements will be revised accordingly.

6.2 MEDICAL SURVEILLANCE

A medical surveillance program will be conducted in accordance with the requirements of 29 CFR 1910.120 for:

8. All employees who are or may be exposed to hazardous substances or health hazards at or above the established permissible exposure limits or, if there is no permissible exposure limit, above the published exposure levels for these substances, without regard to the use of respirators, for 30 days or more a year.
9. All employees who wear a respirator for 30 days or more a year or as required by 29 CFR 1910.134.
10. All employees who are injured, become ill or develop signs or symptoms due to possible overexposure involving hazardous substances or health hazards from an emergency response or hazardous waste operation.

11. Members of HAZMAT teams.

All BEI employees receive periodic medical examinations. Because of the low potential for exposure to hazardous agents, it is not expected that additional medical surveillance will be required for BEI personnel at the 48 Sewell Street property. Non-BEI personnel will be required to acknowledge coverage by a medical surveillance program sufficient to satisfy the requirements of 29 CFR 1910.120 (Appendix C).

Figures

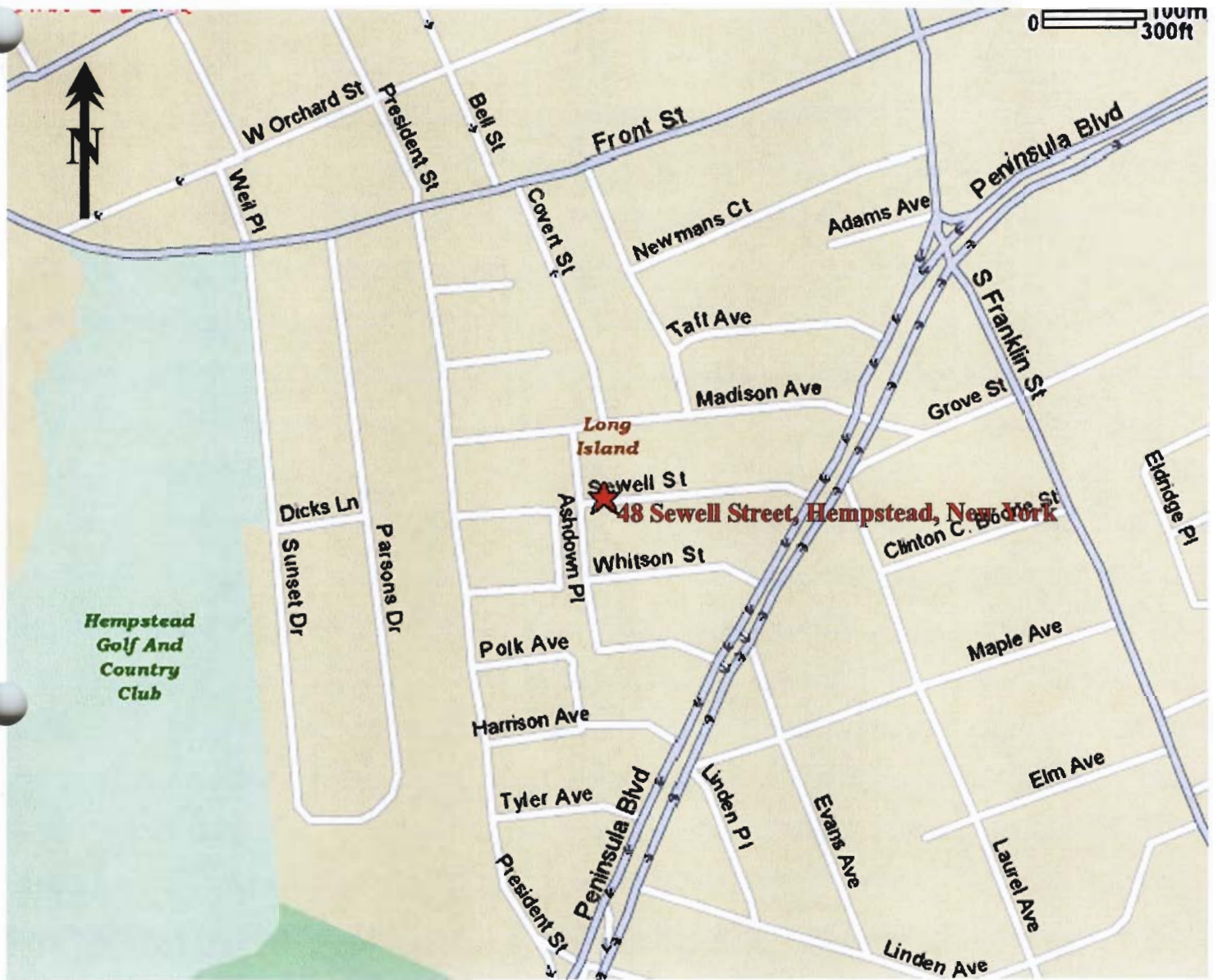


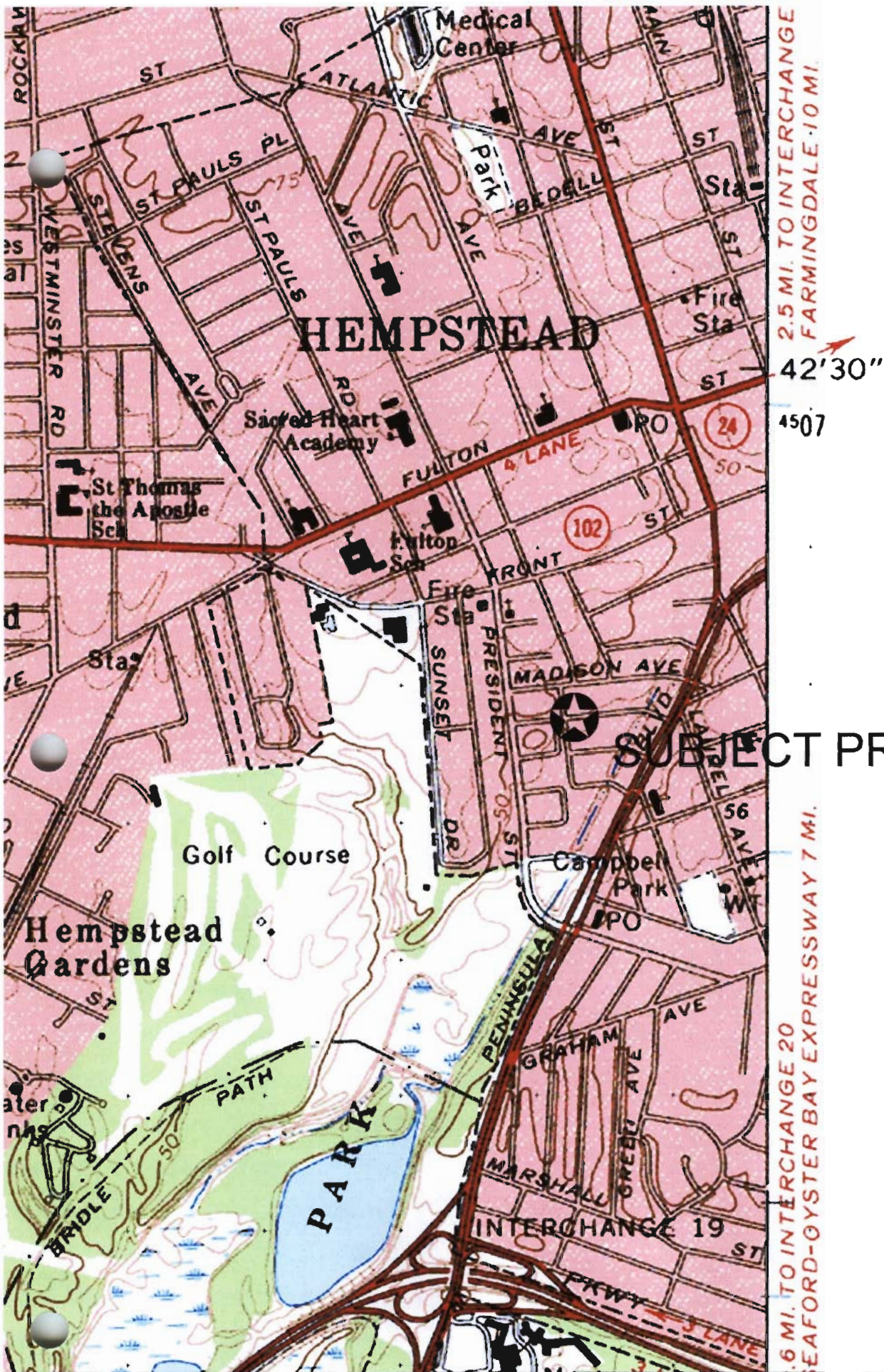
Figure 1 - Site Location

**Former Husslein Plating Corp.
48 Sewell Street
Hempstead, New York**

**Berninger Environmental, Inc.
90-B Knickerbocker Avenue
Bohemia, New York 11716**

(631) 589-6521

Fax (631) 589-6528



2.5 MI. TO INTERCHANGE 20
FARMINGDALE 10 MI.
42'30"
4507
0.6 MI. TO INTERCHANGE 20
SEAFORD-GYSTER BAY EXPRESSWAY 7 MI.

SUBJECT PROPERTY

Name: LYNBROOK
Date: 4/17/106
Scale: 1 inch equals 1000 feet

Location: 040° 42' 06.9" N 073° 37' 49.2" W
Caption: Figure 2 - Topographic Elevation Map
Berninger Environmental Inc.

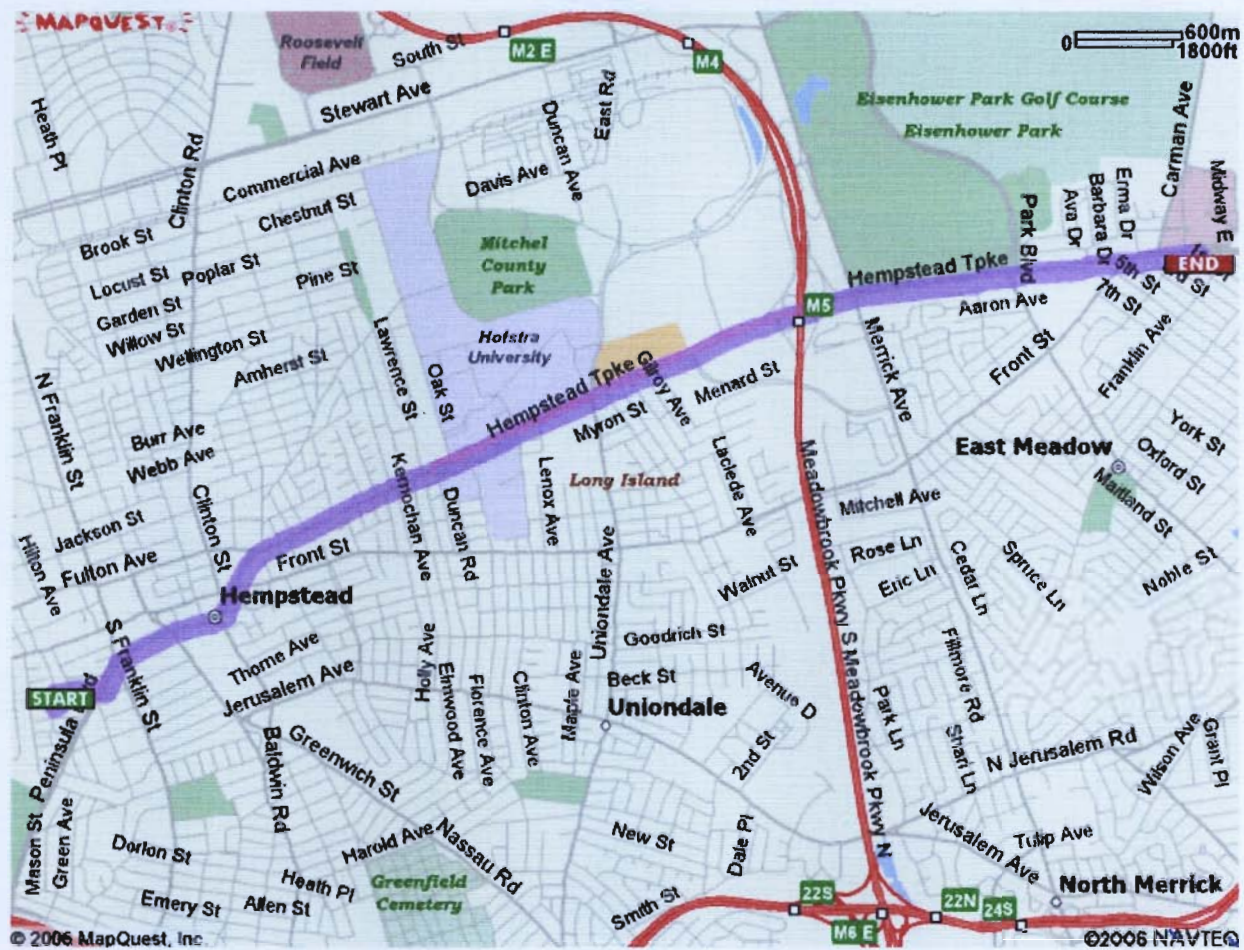


Figure 2 - EMERGENCY ROUTE TO NASSAU UNIVERSITY MEDICAL CENTER

- 1: START out going WEST on SEWELL ST toward MIRSCHEL ST. <0.1 miles
- 2: Turn RIGHT onto MIRSCHEL ST. <0.1 miles
- 3: Turn RIGHT onto MADISON AVE. 0.1 miles
- 4: Turn LEFT onto PENINSULA BLVD. 0.8 miles
- 5: Turn SLIGHT RIGHT onto FULTON AVE. / NY-24 E / HEMPSTEAD TPKE / BETHPAGE TPKE continue to follow NY-24E / HEMPSTEAD TPKE / BETHPAGE TPKE 3.4 miles
- 6: END at Nassau University Medical Center

TOTAL ESTIMATED TIME: 11 minutes
TOTAL DISTANCE: 4.50 miles



Figure 2a - EMERGENCY ROUTE TO MERCY MEDICAL CENTER

- 1: Start out going EAST on SEWELL ST toward PENINSULA BLVD. <0.10 miles
- 2: Turn RIGHT onto PENINSULA BLVD. 0.90 miles
- 3: Turn LEFT <0.10 miles

TOTAL ESTIMATED TIME: 3 minutes
TOTAL DISTANCE: 1.12 miles

Appendices

Appendix A

Historical Site Data

SUMMARY OF PAST INVESTIGATIONS

Site Description

The subject property is a former plating facility located at 48 Sewell Street, Village of Hempstead, New York. It is situated on the southeast corner of the intersection formed by Sewell and Mirschel Streets in the Incorporated Village of Hempstead. The Nassau County Tax Map Designation is Section 35 Block 638 Lots 21 thru 28, inclusive. The approximately 15,000 square foot property currently consists of a concrete paved lot with restricted access. Currently the site is essentially vacant as it is "occupied" by a tenant who only uses it for equipment storage.

Site History

This parcel was operated as Husslein Plating Corp. from 1972 to 1995. Prior historical use includes a suburban bus garage (Semke Bus) from on or about 1945 to 1972. Several fires occurred over the course of the site's active tenancy. The fire in September 1995 resulted in a release of plating solutions (Spill 95-07338). The plating operation was in the process of winding down its business prior to the September 1995 fire. The New York State Department of Environmental Control (the "Department") determined that this release affected local soils. These soils were promptly removed under the oversight of the Department with supplemental testing indicating the absence of Nickel and Chromium above action levels and the spill was deemed closed.

Environmental History

In 1999, the building was demolished as a result of extensive fire damage from a subsequent fire. The site was then put up for sale. In or about 2001, a consultant retained by a potential purchaser conducted Phase I and Phase II Environmental Assessments. Review of the environmental data available for the site indicated that on-site soils and shallow groundwater have been impacted by heavy metals. Specifically, Nickel and Chromium were detected in the soils predominantly along the site's western quarter. To a lesser extent, Arsenic, Mercury, Zinc, and Copper were also found in the soils in this area. Additionally, significant concentrations of Nickel and Chromium were found in groundwater. Little, if any, volatile organic compound (VOC) contamination was identified in site soils or on-site groundwaters.

Table 1
Summary of Soil Sample Data for Total Nickel and Chromium
with Comparison to the Regulatory Action Levels

Soil Sample Boring Location	Composite Interval	Total Nickel, mg/kg	Total Chromium, mg/kg
S-1	1 - 2 Feet Composite	14.4	10.0
S-2	1 - 3 Feet Composite	5.02	5.29
S-3	1 - 3 Feet Composite	5.29	6.08
S-4	2 - 3.5 Feet Composite	13.4	6.78
S-5	1 - 3 Feet Composite	4.29	5.70
S-6	2 - 4 Feet Composite	5.65	5.86
S-7	1 - 3 Feet Composite	4.17	6.16
S-8	1 - 3 Feet Composite	40.9	4.72
S-9	1 - 4 Feet Composite	4.73	6.63
S-10	1 - 3 Feet Composite	4.66	5.13
S-11	1 - 3 Feet Composite	7.29	4.91
S-12	1 - 3 Feet Composite	5.56	6.09
S-13	1 - 3 Feet Composite	6.60	8.19
S-14	1 - 3 Feet Composite	7.06	8.37
S-15	2 - 5 Feet Composite	597	5.34
S-16	2 - 4 Feet Composite	10.9	4.73
NYSDEC RSCO/Background Concentrations Eastern United States	—	13/0.5 - 25	50/1.5-40

NYSDEC RSCO - NYSDEC Recommended Soil Cleanup Objective, mg/kg.
Highlighted values indicate an exceedance of the RSCO/Background Concentrations Eastern US.

VOC's and Metals Detected in Groundwater Samples Collected on April 13, 2005 and April 10, 2001

Metals (total) (mg/l)	April 13, 2005				December 12, 2005				NYSDEC Class GA Ambient Water Quality	
	MW-1	MW-2	MW-3	MW-4	MW-1	MW-2	MW-3	MW-4	Standard	Guidance Value
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	0.25	NA
Barium	0.0314	0.0477	0.0661	0.0314	0.0629	0.0555	0.0615	0.0293	1.0	NA
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	0.005	NA
Chromium	0.109	1.25	1.97	0.109	ND	0.649	0.0186 J	0.0544	0.050	NA
Iron	NA	NA	NA	NA	0.128	0.135	0.261	0.0134 J	0.300	NA
Lead	ND	ND	ND	ND	ND	ND	ND	ND	0.025	NA
Nickel	0.749	3.51	31.3	0.749	0.0240	0.695	11.7	0.310	0.100	NA
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	0.010	NA
Silver	ND	ND	ND	ND	ND	ND	ND	ND	0.050	NA
Mercury (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	0.0007	NA

Notes:

NYSDEC Class GA Ambient Water Quality Standards and Guidance Values,

Reissued June 1998

NA - Not Available/Not Analyzed

ND - analyte was not detected above method detection limits

Italicized and underlined value indicates that metal was detected in the total metals analysis at a concentration exceeding its applicable

NYSDEC Standard or Guidance Value, however same was not detected at a concentration exceeding its NYSDEC Standard or Guidance

Value in the dissolved metals analysis.

USEPA Primary Drinking Water Standards

ug/l - micrograms per liter

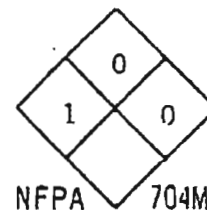
Appendix B

Material Safety Data Sheets



MATERIAL SAFETY DATA SHEET

(Similar to OSHA Form 20)



SECTION I

M-33-80R

SUPPLIERS NAME The Harshaw Chemical Company
1945 E. 97th Street
ADDRESS Cleveland, OH 44106
CHEMICAL NAME Nickel Sulfate
CAS No. 7787-81-41

EMERGENCY TELEPHONE NUMBER 216/721-8300
CODE 451-016-18
PRODUCT NAME Nickel Sulfate, Liquid
FORMULA $\text{Ni SO}_4 \cdot 6\text{H}_2\text{O}$ in Solution

SECTION II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL OR COMPONENT

%

THRESHOLD LIMIT VALUE

$\text{Ni SO}_4 \cdot 6\text{H}_2\text{O}$

45.5%

0.1 mg/m³ as Ni (ACGIH, 1980)

SECTION III - PHYSICAL DATA

BOILING POINT N/A

MELTING POINT N/A

SPECIFIC GRAVITY ($\text{H}_2\text{O}=1$) 1.3

VAPOR PRESSURE N/A

VAPOR DENSITY (Air=1) N/A

SOLUBILITY IN H_2O (% BY WT.) Completely soluble

% VOLATILES BY VOL. Ca54

EVAPORATION RATE (BUTYL ACETATE=1) N/A

APPEARANCE AND ODOR clear, green liquid; odorless

SECTION IV - FIRE AND EXPLOSION DATA

Not A Fire Hazard

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II.

EFFECTS OF OVEREXPOSURE

Eyes : Causes irritation.

Skin : Causes irritation and sensitization or allergic skin reactions which may be accentuated by heat and humidity.

Inhalation : Mists cause upper respiratory irritation. Individuals hypersensitive to nickel may develop asthma, bronchitis, shortness of breath, wheezing.

EMERGENCY & FIRST AID PROCEDURES:

Eyes : In case of contact, immediately flush with water for at least 15 minutes. Call a physician.

Skin : In case of contact, immediately wash skin with soap and plenty of water.

Inhalation : Remove to fresh air; if breathing difficult, give oxygen. If not breathing, give artificial respiration and call a physician.

SECTION VI - REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY : None Expected.

INCOMPATIBILITY : None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Soak up with inert absorbant and scoop into container for disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, state, and local laws.

SECTION VIII - PROTECTIVE EQUIPMENT

VENTILATION : Local exhaust ventilation to control any misting.

PERSONAL PROTECTIVE EQUIPMENT:

- 1) An approved respirator, if necessary.
- 2) Gloves.
- 3) Safety glasses; chemical goggles.

SECTION IX - SPECIAL PRECAUTIONS

Avoid contact with eyes, skin, and clothing.
Avoid breathing.
Wash after handling.
Use only with adequate ventilation.

SECTION X - PERSONNEL SAMPLING PROCEDURE

Consult NIOSH Manual of Sampling Data Sheets, 1977 Edition Method S206.

Equipment:

- 1) Calibrated personal sampling pump, 1-2 lpm capacity \pm 5%, w/sample train.
- 2) 37mm 3-piece cassette filter holder w/37mm diameter 0.8um pore size mixed cellulose ester membrane filter and back-up pad.

Procedure:

- Sample size of 90 liters @ 1.5-2.0 lpm.
- Obtain a personal sample by attaching cassette to or near collar.



MATERIAL SAFETY DATA SHEET

7003

Approved by U. S Department of Labor Essentially Similar to Form OSHA-20

NAME	Chemtech Industries, Inc.		
ADDRESS	1655 Des Peres Road, P. O. Box 31000, St. Louis, MO 63131		
PRODUCT NAME SYNONYMS	Nickel Chloride Solution	TRADE NAME	
PRODUCT FAMILY	Salts	FORMULA	NiCl_2

I. PHYSICAL DATA

MELTING RANGE	N/A	API GRAVITY	
SPECIFIC GRAVITY (d_4^{20})	1.34	POUNDS/GAL.	
VAPOR PRESSURE of Hg at 20°C	N/A	VAPOR DENSITY (Air=1)	N/A
SOLUBILITY IN WATER	Complete	SOLUBILITY IN ACID (85% H_2SO_4)	
BOILING RATE (d_4^{20})	N/A	PER CENT VOLATILE BY VOLUME	N/A
APPEARANCE	Clear green liquid	ODOR	odorless
IR SPECTRUM		aniline point	

II. HAZARDOUS INGREDIENTS

MATERIAL	VOLUME PER CENT	TLV (Units)

III. FIRE AND EXPLOSION HAZARD DATA

LOWER FLAMMABLE LIMIT AIR (Per Cent by Volume)		D.O.T. CLASSIFICATION	CORROSIVE
FLASH POINT (Test Method)	None	FLAMMABILITY CLASSIFICATION	
EXTINGUISHING MEDIA	None		
SPECIAL FIRE FIGHTING PROCEDURES	None		

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	N/A
EFFECTS OF OVEREXPOSURE	Mild skin irritant
EMERGENCY AND FIRST AID PROCEDURES	Flush with water. If swallowed, induce vomiting. If splashed in eyes, rinse thoroughly.

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID		INCOMPATIBILITY (Materials to Avoid)	None
UNSTABLE	STABLE X				
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID		HAZARDOUS DECOMPOSITION PRODUCTS	None
MAY OCCUR	WILL NOT OCCUR X				

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED- OR SPILLED	Flush with water. Use usual clean up procedures.
WASTE DISPOSAL METHOD	Follow local disposal regulations.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)		
VENTILATION	LOCAL EXHAUST	
	MECHANICAL (General)	General Ventilation
PROTECTIVE GLOVES		Rubber
OTHER PROTECTIVE EQUIPMENT		Rubber Apron
		Eye Protection: Face Shield

PRECAUTIONARY LABELING	Store at moderate temperatures in a closed container.
OTHER HANDLING AND STORAGE PRECAUTIONS	None



GARDENA, CA
NEW BRUNSWICK, NJ

Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	2	Fire Hazard	1	Reactivity	0	 See Section 15.
Health Hazard	2							
Fire Hazard	1							
Reactivity	0							

Section 1. Chemical Product and Company Identification

Page Number: 1

Common Name/ Trade Name	Chromium	Catalog Number(s)	C1233
		CAS#	7440-47-3
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	RTECS	GB4200000
		TSCA	TSCA 8(b) inventory: Chromium
Commercial Name(s)	Not available.	CI#	Not applicable.
Synonym	Chromium metal; Chrome; Chromium Metal Chips 2" and finer	IN CASE OF EMERGENCY CIEMTREC (24hr) 800-424-9300 CALL (310) 516-8000	
Chemical Name	Chromium		
Chemical Family	Element. (Inert material.)		
Chemical Formula	Cr		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2. Composition and Information on Ingredients

		Exposure Limits			
Name	CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Chromium	7440-47-3	0.5			100
Toxicological Data on Ingredients	Chromium LD50: Not available. LC50: Not available.				

Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, lungs, liver, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

Continued on Next Page

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	580°C (1076°F)
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Some metallic oxides.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Moderate fire hazard when it is in the form of a dust (powder) and burns rapidly when heated in flame. Chromium is attacked vigorously by fused potassium chlorate producing vivid incandescence. Pyrophoric chromium unites with nitric oxide with incandescence. Incandescent reaction with nitrogen oxide or sulfur dioxide.
Special Remarks on Explosion Hazards	Powdered Chromium metal + fused ammonium nitrate may react violently or explosively. Powdered Chromium will explode spontaneously in air.

Section 6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 0.5 (mg/m ³) from ACGIH (TLV) [United States] TWA: 1 (mg/m ³) from OSHA (PEL) [United States] TWA: 0.5 (mg/m ³) from NIOSH [United States] TWA: 0.5 (mg/m ³) [United Kingdom (UK)] TWA: 0.5 (mg/m ³) [Canada] Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Metal solid.)	Odor	Odorless.
Molecular Weight	52 g/mole	Taste	Not available.
pH (1% soln/water)	Not applicable.	Color	Silver-white to Grey.
Boiling Point	2642°C (4787.6°F)		
Melting Point	1900°C (3452°F) +/- 10 deg. C		
Critical Temperature	Not available.		
Specific Gravity	7.14 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Insoluble in cold water, hot water. Soluble in acids (except Nitric), and strong alkalis.		

Continued on Next Page

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis.
Corrosivity	Not available.
Special Remarks on Reactivity	Incompatible with molten Lithium at 180 deg. C, hydrogen peroxide, hydrochloric acid, sulfuric acid, most caustic alkalies and alkali carbonates, potassium chlorate, sulfur dioxide, nitrogen oxide, bromine pentafluoride. It may react violently or ignite with bromine pentafluoride. Chromium is rapidly attacked by fused sodium hydroxide + potassium nitrate. Potentially hazardous incompatibility with strong oxidizers.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of ingestion.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May cause cancer based on animal data. There is no evidence that exposure to trivalent chromium causes cancer in man.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: May cause skin irritation. Eyes: May cause mechanical eye irritation. Inhalation: May cause irritation of the respiratory tract and mucous membranes of the respiratory tract. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Chronic Potential Health Effects: Inhalation: The effects of chronic exposure include irritation, sneezing, redness of the throat, bronchospasm, asthma, cough, polyps, chronic inflammation, emphysema, chronic bronchitis, pharyngitis, bronchopneumonia, pneumoconiosis. Effects on the nose from chronic chromium exposure include irritation, ulceration, and perforation of the nasal septum. Inflammation and ulceration of the larynx may also occur. Ingestion or Inhalation: Chronic exposure may cause liver and kidney damage.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.

Continued on Next Page

Chromium

Page Number: 5

Special Remarks on the
Products of Biodegradation

Not available.

Section 13. Disposal Considerations

Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

DOT Classification

Not a DOT controlled material (United States).

Identification

Not applicable.

Special Provisions for
Transport

Not applicable.

DOT (Pictograms)

**Section 15. Other Regulatory Information and Pictograms**

Federal and State
Regulations

Connecticut hazardous material survey: Chromium
Illinois toxic substances disclosure to employee act: Chromium
Illinois chemical safety act: Chromium
New York release reporting list: Chromium
Rhode Island RTK hazardous substances: Chromium
Pennsylvania RTK: Chromium
Minnesota: Chromium
Michigan critical material: Chromium
Massachusetts RTK: Chromium
Massachusetts spill list: Chromium
New Jersey: Chromium
New Jersey spill list: Chromium
Louisiana spill reporting: Chromium
California Director's List of Hazardous Substances: Chromium
TSCA 8(b) inventory: Chromium
SARA 313 toxic chemical notification and release reporting: Chromium
CERCLA: Hazardous substances.: Chromium: 5000 lbs. (2268 kg)

California
Proposition 65
Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC)

R40- Limited evidence of carcinogenic
effect

S36/37/39- Wear suitable protective clothing,
gloves and eye/face protection.
S45- In case of accident or if you feel unwell,
seek medical advice immediately (show the
label where possible).

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	E

National Fire Protection
Association (U.S.A.)

Health



Flammability

Reactivity

Specific hazard

Continued on Next Page

WHMIS (Canada)
(Pictograms)DSCG (Europe)
(Pictograms)TDG (Canada)
(Pictograms)ADR (Europe)
(Pictograms)

Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

Section 16. Other Information

MSDS Code C4190

References Not available.

Other Special Considerations Not available.

Validated by Sonia Owen on 4/12/2004.

Verified by Sonia Owen.

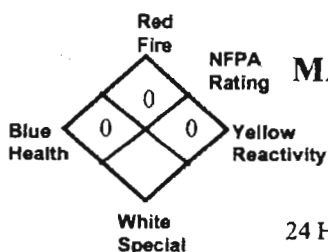
Printed 8/24/2004.

CALL (310) 516-8000

Notice to Reader

Continued on Next Page

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Alconox®**MATERIAL SAFETY DATA SHEET**

Alconox, Inc.
30 Glenn Street
White Plains, NY 10603

24 Hour Emergency Number – Chem-Tel (800) 255-3924

I. IDENTIFICATION

Product Name (as appears on label)	ALCONOX
CAS Registry Number:	Not Applicable
Effective Date:	January 1, 2001
Chemical Family:	Anionic Powdered Detergent
Manufacturer Catalog Numbers for sizes	1104, 1125, 1150, 1101, 1103 and 1112

II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

There are no hazardous ingredients in ALCONOX as defined by the OSHA Standard and Hazardous Substance List 29 CFR 1910 Subpart Z.

III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F):	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Vapor Density (AIR=1):	Not Applicable
Specific Gravity (Water=1):	Not Applicable
Melting Point:	Not Applicable
Evaporation Rate (Butyl Acetate=1):	Not Applicable
Solubility in Water:	Appreciable-Soluble to 10% at ambient conditions
Appearance:	White powder interspersed with cream colored flakes.
pH:	9.5 (1%)

IV. FIRE AND EXPLOSION DATA

Flash Point (Method Used):	None
Flammable Limits:	LEL: No Data UEL: No Data
Extinguishing Media:	Water, dry chemical, CO ₂ , foam
Special Fire fighting Procedures:	Self-contained positive pressure breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.
Unusual Fire and Explosion Hazards:	None

V. REACTIVITY DATA

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility (Materials to Avoid):	None
Hazardous Decomposition or Byproducts:	May release CO ₂ on burning

VI. HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation? Yes Skin? No Ingestion? Yes
Health Hazards (Acute and Chronic):	Inhalation of powder may prove locally irritating to mucous membranes. Ingestion may cause discomfort and/or diarrhea. Eye contact may prove irritating.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No
Signs and Symptoms of Exposure:	Exposure may irritate mucous membranes. May cause sneezing.
Medical Conditions Generally Aggravated by Exposure:	Not established. Unnecessary exposure to this product or any industrial chemical should be avoided. Respiratory conditions may be aggravated by powder.
Emergency and First Aid Procedures:	Eyes: Immediately flush eyes with water for at least 15 minutes. Call a physician. Skin: Flush with plenty of water. Ingestion: Drink large quantities of water or milk. Do not induce vomiting. If vomiting occurs administer fluids. See a physician for discomfort.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken if Material is Released or Spilled:	Material foams profusely. Recover as much as possible and flush remainder to sewer. Material is biodegradable.
Waste Disposal Method:	Small quantities may be disposed of in sewer. Large quantities should be disposed of in accordance with local ordinances for detergent products.
Precautions to be Taken in Storing and Handling:	Material should be stored in a dry area to prevent caking.
Other Precautions:	No special requirements other than the good industrial hygiene and safety practices employed with any industrial chemical.

VIII. CONTROL MEASURES

Respiratory Protection (Specify Type):	Dust mask - Recommended
Ventilation:	Local Exhaust-Normal Special-Not Required Mechanical-Not Required Other-Not Required
Protective Gloves:	Impervious gloves are useful but not required.
Eye Protection:	Goggles are recommended when handling solutions.
Other Protective Clothing or Equipment:	None
Work/Hygienic Practices:	No special practices required

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY IS EXPRESSED OR IMPLIED.

MSDS Material Safety Data Sheet

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865



24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300
National Response in Canada
CANUTEC: 613-996-6666
Outside U.S. And Canada
Chemtec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

ALCONOX®

1. Product Identification

Synonyms: Proprietary blend of sodium linear alkylaryl sulfonate, alcohol sulfate, phosphates, and carbonates.

CAS No.: Not applicable.

Molecular Weight: Not applicable to mixtures.

Chemical Formula: Not applicable to mixtures.

Product Codes: A461

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Alconox® proprietary detergent mixture	N/A	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.

J.T. Baker SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT

Storage Color Code: Orange (General Storage)

Potential Health Effects

Inhalation:

May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion:

May cause irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

Skin Contact:

No adverse effects expected.

Eye Contact:

May cause irritation, redness and pain.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Not expected to be a fire hazard.

Explosion:

No information found.

Fire Extinguishing Media:

Dry chemical, foam, water or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. When mixed with water, material foams profusely. Small amounts of residue may be flushed to sewer with plenty of water.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Moisture may cause material to cake. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

- OSHA Permissible Exposure Limit (PEL):

15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts.

- ACGIH Threshold Limit Value (TLV):

10 mg/m³ total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC).

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White powder interspersed with cream colored flakes.

Odor:

No information found.

Solubility:

Moderate (1-10%)

Specific Gravity:

No information found.

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

No information found.

Melting Point:

No information found.

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

No information found.

Conditions to Avoid:

No information found.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

-----Cancer List-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Alconox® proprietary detergent mixture	No	No	None

12. Ecological Information

Environmental Fate:

This product is biodegradable.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
Ingredient                                     TSCA  EC   Japan  Australia
-----
Alconox®                                       Yes   No    No     No
proprietary detergent mixture

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-----\Chemical Inventory Status - Part 2\-----
Ingredient                                     --Canada--
Korea  DSL  NDSL  Phil.
-----
Alconox®                                       No    No    Yes   No
proprietary detergent mixture

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-----\Federal, State & International Regulations - Part 1\-----
Ingredient                                     -SARA 302-  -SARA 311-
RQ    TPQ    List  Chemical Catg.
-----
Alconox®                                       No    No    No     No
proprietary detergent mixture

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-----\Federal, State & International Regulations - Part 2\-----
Ingredient                                     -RCRA-      -TSCA-
CERCLA  261.33  8(d)
-----
Alconox®                                       No    No    No
proprietary detergent mixture

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Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

Label Hazard Warning:

CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.

Label Precautions:

Avoid contact with eyes.

Keep container closed.

Use with adequate ventilation.

Avoid breathing dust.

Wash thoroughly after handling.

Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.

In all cases, get medical attention.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 8.

Disclaimer:

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Prepared by: Environmental Health & Safety

Phone Number: (314) 654-1600 (U.S.A)

Appendix C

Health and Safety Plan Acceptance And Training Acknowledgment

Instructions: This form is to be completed by each person that works on the 48 Sewell Street Investigation Work Plan site and returned to the Site Safety and Health Officer.

I have read and agree to abide by the contents of the SITE-SPECIFIC HEALTH AND SAFETY PLAN for work activities at the site. I have completed the training requirements specified in the plan. I am currently participating in a medical surveillance program that satisfies the requirements of CFR 1910.120.

Signature:

Date:

Return to:
Site Safety and Health Officer or
Berninger Environmental, Inc.
90-B Knickerbocker Avenue, Bohemia, New York 11716