## SITE INVESTIGATION REPORT AND PROPOSED REMEDIAL ACTION

Johnson & Hoffman Manufacturing Corp. Carle Place, NY

7 August 2003 0001354.2286

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#### 1.0 INTRODUCTION

The Johnson & Hoffman Manufacturing Corporation (J&H) facility is located at 40 Voice Road, in Carle Place, Nassau County, New York (the "Site"; see Figure 1-1 for location). This Site has been the subject of several rounds of environmental investigation between 1996 and 2002. The most recent work was performed by Environmental Resources Management (ERM) between October 2000 and August 2002. This work consisted of the following:

- A soil gas survey, soil sampling, monitoring well installation and ground water sampling was performed in October and November of 2000.
- Additional delineation of impacted soil was performed in December 2001 through February 2002.
- A confirmatory round of ground water samples was collected in May 2002.
- Final delineation of impacted soil was completed in August 2002.
- A well search and receptor analysis was performed in August 2002.

This report presents the results of the above investigations in detail, and also provides an overview of all work conducted prior to October 2000.

#### 1.1 SITE DESCRIPTION

The Site consists of a 59,000-square foot, one story building with associated parking and grass areas, on a 4.054-acre parcel. J&H has occupied the Site since 1962. J&H produces small metal parts at the Site using processes that include metal stamping, deburring and washing.

The Site is bounded to the north by Voice Road, on the opposite side of Voice Road directly north is an electrical substation owned by the Long Island Power Authority (LIPA). Located to the south of the Site is the Long Island Rail Road right-of-way. To the east is a small commercial

building occupied by a company called Fun World. An AM radio station is situated west of the Site along with a storage yard for trucks and landscaping equipment. A site plan is provided as Figure 1-2.

#### 1.2 SITE HYDROGEOLOGY

There are four distinct geologic units that exist regionally (including beneath the Site) and consist of unconsolidated deposits of clay, silt, sand, and gravel that overlie southeast-sloping consolidated bedrock. The geologic units are, in descending order relative to the land surface: Upper Glacial Formation, the Magothy Formation, the Raritan Clay Member of the Raritan Formation, and the Lloyd Sand Member of the Raritan Formation. The Upper Glacial Formation forms the surface deposits across the Site.

The water table occurs approximately 50 feet below grade within the unconfined Upper Glacial Aquifer. The Upper Glacial is approximately 100 feet thick in the area of the Site (50 feet are saturated). Underlying the Upper Glacial Aquifer is the semi-confined Magothy Aquifer, which is several hundred feet thick and widely used for water supply throughout Long Island.

#### 1.3 PREVIOUS INVESTIGATIONS

The previous investigations conducted at the Site were documented in the following reports:

- "Phase I Environmental Site Assessment" (ERM, December 1996)
- "Results of Phase II Investigation" (ERM, February 1997)
- "Environmental Due Diligence Review" (McCulley, Frick & Gilman, January 1997
- "Due Diligence Report" (MAC Consultants, April 1998)

 "Phase I Environmental Site Assessment" (Liesch Associates, April 1999)

A summary of each investigation is provided in the following subsections. All sample locations are shown on Figure 1-3; sample results are summarized on Table 1-1.

### 1.3.1 Phase I Environmental Site Assessment (ERM, December 1996)

This Phase I Environmental Site Assessment (ESA) was conducted according to the ASTM standard and reported the following Recognized Environmental Conditions (RECs):

- Two active floor drains in the facility discharge to a stormwater drainage system that services the parking lot west of the manufacturing building. This system consists of several interconnected dry wells that ultimately discharge to an on-site stormwater detention basin.
- Two Finishing Department wastewater trenches (located north and south of the boiler room on the east side of the building) had deteriorated concrete sidewalls. Based upon the condition of the trench sidewalls, there may be some pathway for liquids to reach the soils underlying the north trench at this location.
- Two out-of-service dry wells were located in the boiler room. At the time of this Phase I, J&H had initiated steps to properly close these structures under the jurisdiction of the Nassau County Department of Health (NCDOH).

## 1.3.2 Results of Phase II Investigation (ERM, February 1997)

A Phase II site investigation was performed to follow-up on the Phase I ESA described above and collect environmental samples at the three identified RECs. A summary of the reported findings is provided below:

 A sediment sample (designated SWCB-1) was collected at the base of a dry well in the stormwater drainage system west of the building. This drainage system received discharges from floor drains in the building. Petroleum hydrocarbons were identified in this sample at 4,030

- mg/kg. As a result it was recommended that the stormwater infiltration basin downstream of this dry well be sampled.
- Soil samples were collected from beneath the wastewater trenches in the Finishing Department on the east side of the building (samples NT-1, NT-2 and ST-1). These samples were found to contain metals (Cr, Hg, Ni and/or Zn) slightly above the New York State Recommended Soil Cleanup Objectives (RSCOs). The presence of these metals was attributed to background conditions.
- Sediment samples were collected at the base of two dry wells in the facility boiler room (samples BRcenter-1 and BRside-2). Mercury was detected in Brcenter-1 at 0.15 mg/kg, slightly above the RSCO of 0.1 mg/kg. It was recommended that the closure of the boiler room dry wells be completed under the jurisdiction of the NCDOH. This work was performed subsequent to this investigation.

# 1.3.3 Environmental Due Diligence Review (McCulley, Frick & Gilman, January 1997)

This report included of an assessment similar in scope to a standard Phase I ESA. A summary of the findings pertaining to potential site contamination (i.e., those findings that represent RECs) is provided below:

- Two floor drains in the southwestern portion of the building discharge to the stormwater drainage system in the west parking lot.
- One steel 5,000-gallon fuel oil UST was located adjacent to the east wall
  of the building. At the time of this study, the UST was last tightness
  tested on May 7, 1996. Previously, the UST was tested annually and
  reported to have passed, in accordance with applicable regulations.
- One surficial soil sample was collected in the bottom of the infiltration basin at the south end of the Site (sample S-4). The analysis detected 7,500 mg/kg of petroleum hydrocarbons, which was attributed to oily discharges from normal vehicular traffic in the parking lot.
- Small metal parts, scrap metal fragments and tumbling media were found on the ground surface in two small areas in the southwestern portion of the Site. Soil sample S-3 was collected at this location and low concentrations of three metals (Cd, Hg, Pb) were detected in excess of their respective RSCOs.
- A wastewater trench was in the process of being repaired during the time of the assessment. Four 55-gallon drums of soil were removed to facilitate the necessary access to the subsurface. Soil sample S-1 was collected from the bottom of the hole. Analytical results for RCRA

- metals indicated only chromium in excess of the RSCOs. Petroleum hydrocarbons were detected at 180 mg/kg. No VOCs were detected.
- The former dry well in the boiler room was in the process of being excavated during the time of the assessment. Two 55-gallon drums of soil were removed from the hole. MFG sampled the soils in the bottom of the excavation (sample S-2) and detected selected metals at very low concentrations (<10 mg/kg). Only cadmium was detected above it RSCO value. Petroleum hydrocarbons were detected at 86 mg/kg. No VOCs were detected.
- A self-contained wastewater trench was observed to be full of soapy rinse water from the tumbling and parts cleaning operations in the Finishing Department. This trench is reported to have several sections where the concrete was degraded.

## 1.3.4 Due Diligence Report (MAC Consultants, April 1998)

This project addressed a mix of compliance and potential site contamination issues. Those tasks related to environmental contamination issues are described below along with the associated findings:

- In follow-up to the previous soil quality findings in the stormwater
  infiltration basin, one soil sample (SW-1) was collected from the base of
  this structure and analyzed for poly-aromatic hydrocarbons (PAHs).
  This sample indicated the presence of several PAH compounds above
  their respective RSCO values. As a result, additional samples were
  collected to assess potential threats to ground water quality as
  described below.
- Nine additional soil samples (SW-1a, SW-2, SW-2a, SW-3, SW-3a, SW-4, SW-4a, SW-5, SW-5a) were collected throughout the infiltration basin and analyzed for poly-aromatic hydrocarbons (PAHs) using the TCLP extraction procedure. These samples were distributed between shallow (0.0 to 0.5 feet) and deep (4.0 to 4.5 feet) sampling intervals. All sampling results found no detectable levels of PAH compounds in the TCLP extract. Based on these results, no further work was recommended.
- Previous laboratory results for sample ST-1 (5.5-6.0 feet) in the
  Finishing Department were reviewed to evaluate the conclusion that
  the nickel and zinc concentrations found in excess of the RSCO values
  are representative of background soil quality at the Site. Based on the
  review performed, it was concluded that the nickel and zinc are within

- the range considered representative of background and no further work would be necessary.
- The closure of the two boiler room dry wells was completed by filling each structure with clean sand, sealing the well openings with concrete, and disposing of the two drums of lead contaminated soil previously excavated. Documentation of the closure was submitted to NCDOH and USEPA. Based on the work performed, no additional action was deemed to be warranted.
- The concrete walls of the northern wastewater trench in the Finishing Department were resurfaced and two interior floor drains in the Compressor Room and Annealing Area that led to the stormwater drainage system west of the building were sealed and abandoned-inplace by J&H. The completed work was inspected and found to be acceptable.
- Waste parts and tumbling media were removed from three outside locations. Fifteen drums of material (including the upper three inches of soil) were generated. This material was transported as nonhazardous waste to an off-site disposal facility.
- A soil boring was installed adjacent to the underground tank used to store No. 2 fuel oil and a sample (SW-2) was collected at or near the tank invert elevation. The sample was analyzed for PAHs and the results indicated that no constituents were present in excess of the New York State STARS guidance values. It was also noted that the tank had recently passed a tightness test, therefore it was concluded that there was no evidence of a release.

## 1.3.5 Phase I Environmental Site Assessment (Liesch Associates, April 1999)

This Phase I ESA, in addition to the standard ASTM scope of work, also included the installation of three monitoring well (MWs 1, 2 and 3) and eight soil borings (SB-1 through SB-6, HA-1 and B-1). Soil and ground water were samples collected and found PCE at levels exceeding the applicable standards and guidelines. As a result, the Phase I ESA concluded that the presence of PCE in soil and ground water represented a recognized environmental condition at the Site. No other recognized environmental conditions were reported. It is noted however, that one soil sample (HA-1) contained several metals (Be, Cr, Ni, Zn) at levels slightly in excess of the RSCOs. Several metals were also detected in ground water at levels above the applicable standards.

## 1.3.6 Evaluation of Historic Soil Sampling Results

The previous investigations of soil quality at the Site identified a number of Areas of Concern (AOCs), all of which have been investigated to various extents. A list of all recognized AOCs for soil is provided as follows:

- 1. Floor drains in the Compressor Room and Annealing Area that formerly discharged into the stormwater drainage system west of the building;
- 2. Concrete wastewater trench in the Finishing Department;
- 3. Boiler Room dry wells;
- 4. Accumulation of scrap parts and tumbling media on the ground surface in the southwest portion of the Site;
- 5. Stormwater drainage system west of the building, including the infiltration basin located in the southwest portion of the Site;
- 6. 5,000-gallon No. 2 fuel oil UST; and
- 7. PCE impacted soil near the southeast corner of the building.

The summary descriptions of historic soil sampling at the Site presented above indicate the detection of metals in excess of the RSCOs in AOC-1 through AOC-4. These findings are discussed in further detail in Section 1.3.6.1, below. The results from AOC-5 through AOC-7 where the chemicals of concern are organic in nature are further evaluated in Section 1.3.6.2.

## 1.3.6.1 Discussion of Inorganic Soil Sampling Results

As previously noted, Table 1-1 provides a summary of all soil sampling data and lists all samples with exceedences of the RSCOs. For the metals data, Table 1-2 presents the detected concentrations and actual RSCO values. In general, Table 1-2 shows only slight exceedences of the RSCO values. In addition, two of the samples listed in Table 1-2 (HA-1 and MW-

2) were collected in areas not believed to be impacted by metals contamination, but still had exceedences of the RSCOs. These sample results suggest that metals levels slightly above the RSCOs may represent a background condition at the Site.

Remedial actions were also performed in each of the four AOCs where the primary chemicals of concern were metals. These actions are summarized below.

AOC	Remedial Actions Taken	Current Status
Floor Drains in	Drains sealed and	No further action
Compressor Room and Annealing Area	abandoned in place	required
Wastewater Trench in	Concrete trenches were	No further action
Finishing Dept.	resurfaced and sealed.	required
Boiler Room Dry Wells	Dry wells excavated and closed. Closure report submitted to NCDOH and USEPA.	No further action required
Accumulations of Scrap Parts on Ground Surface	Scrap parts were removed from site along with uppermost shallow	No further action required
	soil.	

Based on the foregoing, it is concluded that no additional work is necessary at these AOCs.

## 1.3.6.2 Discussion of Organic Soil Sampling Results

Three areas of the site were historically evaluated where organic contaminants were the primary chemicals of concern. This includes the former 5,000-gallon No. 2 fuel oil UST; the wastewater drainage system; and the former use of tetrachloroethene at the facility. These sampling results are discussed below.

Soil sample B-1 was collected at the UST location and did not indicate that any fuel oil was released. No exceedences of the RSCOs were detected. In

addition, it is noted that the tank had previously passed multiple tightness tests prior to being abandoned-in-place. Based on this information, it was concluded that no further evaluation is necessary at this location.

The wastewater drainage system was evaluated through the collection of a sample in dry well SWCB-1 and a series of samples in the infiltration basin. Petroleum hydrocarbons and poly-aromatic hydrocarbons were detected in this system, however TCLP analysis indicated that these compounds are not leachable. As a result, no further investigation is necessary.

The previous soil sampling results indicated the presence of tetrachloroethene (PCE) above its RSCO value near the southeast corner of the building. Based on these findings, it was concluded that further evaluation of this area was necessary. As a result, one of the primary objectives of the subsequent investigation work conducted by ERM was delineate the extent of soil in this area with PCE above its RSCO.

## 1.3.7 Evaluation of Historic Ground Water Sampling Results

A summary of the ground water investigation conducted as part of the previous investigations is presented in the table below. This work included the installation and sampling of three monitoring wells (MW-1, MW-2 and MW-3). These wells were constructed with well screens straddling the water table. A summary of these sampling results is provided below.

	_	Analyses	Analytes Exceeding	
Sample ID	Date	Performed	NYSGWS	
MW-1	2/16/99	VOCs, SVOCs,	Tetrachloroethene, Sb,	
		PP Metals	As, Cr, Pb	
MW-2	2/16/99	VOCs, SVOCs,	VOCs, Tetrachloroethene, Sb,	
		PP Metals	As, Be, Cr, Pb	
MW-3	2/16/99	VOCs, SVOCs,	Sb, As, Be, Cr. Pb	
		PP Metals		

The sampling results for inorganic constituents indicate a number of exceedences of the New York State Ground Water Standards (NYSGWS). A summary of these data is provided below.

		Concentration	NYSGWS
Sample ID	Analyte	(μg/L)	(µg/L)
MW-1	Antimony	8.0	3.0
	Arsenic	28	25
	Chromium	87	50
	Lead	62	25
MW-2	Antimony	9.0	3.0
	Arsenic	28	25
	Beryllium	3.2	3.0
	Chromium	80	50
	Lead	58	25
MW-3	Antimony	10	3.0
	Arsenic	32	25
	Beryllium	3.3	3.0
	Chromium	72	50
	Lead	64	25

As indicated above, slight exceedences of the NYSGWS for inorganic parameters are ubiquitous across the Site. However, it is noted that the upgradient monitoring well (MW-3) contains the same analytes at similar concentrations as the two downgradient wells (MW-1 and MW-2). As a result, it is concluded that metals detected in ground water at the Site in excess of the NYSGWS represents a background condition.

The sampling results for organic chemicals indicated that ground water in the southern portion of the Site contained PCE at levels in excess of the New York State Ground Water Standards (NYSGWS). Based on these findings, it was concluded that further ground water evaluation at the Site was necessary. As a result, the objectives of the subsequent investigation work conducted by ERM included defining the ground water flow regime, delineating the extent of ground water containing PCE above the

NYSGWS, and evaluating if any potential threat to human health or the environment exists.

## 1.3.8 Summary of Previous Investigations

Based on the results of the historic investigations performed at the Site and summarized above, further environmental investigation is necessary to evaluate PCE in soil and ground water. No further action is required for all other AOCs at the Site. The remainder of the work reported in this document therefore focuses on the delineation of PCE impacts in the effected media.

#### 2.0 SCOPE OF WORK

#### 2.1 2000 SITE INVESTIGATION

The initial phase of work was based on a work plan prepared by HRP Associates, Inc. dated 24 September 1999 (see Appendix A). The project was implemented by ERM in October and November of 2000 with no deviations from the HRP work plan. Details of the work scope are provided below.

## 2.1.1 Soil Gas Survey

Previous subsurface investigations at the Site identified elevated concentrations of tetrachloroethene (PCE) and its associated breakdown products within in the soils located near the southeast corner of the building in the vicinity of existing monitoring well MW-2. A soil gas survey was conducted as a screening exercise to evaluate the source(s) of these contaminants and their approximate areal extent. The soil gas survey started in the vicinity of MW-2 and expanded outward in 20-foot increments. Each soil gas sample was collected by driving a slam bar to four feet below grade. A glass tube was inserted into the resulting hole and the annulus sealed with clay. The tube was purged of at least one volume of soil gas using a small pump. The sample was then collected in a Tedlar bag and analyzed by an on-site gas chromatograph (GC) equipped with a photo-ionization detector (PID) for PCE and its breakdown products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride. New glass tubes and Tedlar bags were used for each sample. The slam bar was decontaminated between samples. A sampling grid was set-up as described in the HRP work plan with only minor changes due to accessibility.

## 2.1.2 Soil Boring Program

Based on the soil gas survey results, ERM installed eight soil borings in the locations that exhibited elevated soil gas contaminant concentrations. Four soil samples were collected from each soil boring in 2-foot vertical increments (except where refusal did not permit penetration to the desired depth of eight feet). Each sample was subdivided into two one-foot aliquots, each of which were initially screened with a portable PID then analyzed using the GC/PID.

Based upon the field screening results, ERM submitted two samples from each boring (16 samples total) to a state certified laboratory for analysis of halogenated volatile organics via EPA Method 8021B. The sample with the highest contaminant levels in the field screening was selected for laboratory analysis in each boring. An additional sample was selected for vertical delineation purposes.

## 2.1.3 Monitoring Well Installation

As per the work plan, two new wells were installed at the Site. New well MW-4 was installed in the northeast corner of the Site upgradient of the source area near existing well MW-2 to evaluate the quality of ground water entering the Site. New well MW-5 was installed south (downgradient) of MW-2 to evaluate the possible presence of a ground water VOC plume.

The two new wells were installed approximately eight feet into ground water by a truck mounted hollow stem rig. The wells were constructed of two-inch I.D. schedule 40 PVC casing and ten feet of 0.010-slot well screen. The screened section of the each well was surrounded with clean filter sand with a one-foot thick bentonite seal set immediately above the filter pack. The remainder of the annular space was filled with

cement/bentonite grout to grade. Each well was secured with a locking well cap and a bolt-down cast iron road box set in concrete flush with existing grade. (See Appendix B for construction details of each new well.) After installation was complete, the two new wells were developed by pumping until the discharge was free of visible turbidity.

## 2.1.4 Ground Water Sampling

Following installation and development of the two new wells, the top of well locations for the three existing wells (MW-1, MW-2 and MW-3) and two new wells (MW-4 and MW-5) were surveyed to determine elevation relative to an on-site benchmark. As required in the work plan, the five wells were not sampled until at least ten days after development to allow equilibration of ground water conditions.

Prior to well purging, the depth to water in the all five wells was measured to determine the Site's ground water flow direction. Each well was then purged by removing at least three well volumes with a properly decontaminated pump. The sampling was performed using disposable bailers. The collected ground water samples were placed on ice for preservation and delivered to a state-certified laboratory for analysis of volatile organics via EPA Method 8021B.

#### 2.2 2001 – 2002 SITE INVESTIGATION

In December 2001, additional soil sampling was performed to complete the horizontal and vertical delineation at the two identified areas where concentrations of volatile organic compounds (VOCs) exceeded the NYSDEC RSCOs.

Five borings were conducted north and west of the impacted area near MW-2. The locations of these borings are presented on Figure 3-4 and

were determined based on accessibility within the building. Four additional borings were also conducted at exterior locations approximately 15 feet north, south, east and west of previous boring SB-9 at the concrete pad. Three soil samples were collected at each of the nine boring locations (generally from 0'-2, 4-6' and 8'-10' below grade). At three locations (SB-21, SB-22 and SB-23), the deepest sample was collected at a shallower horizon in response a PID detection or auger refusal.

The most recent soil samples collected were obtained in August 2002. As part of this work, eight borings (SB-24 through SB-31) were installed near the concrete pad area to conclude the delineation in this area (see Figure 3-4). Two samples were selected for analysis in these borings based on PID screening results.

In addition, an additional round of ground water samples was collected from all Site wells. This work was conducted in May 2002.

All samples were analyzed by a State-certified laboratory for VOC by EPA Method 8260 (soil) or EPA Method 624 (water).

#### 3.0 INVESTIGATION RESULTS

The following sections describe the results of all work performed at the Site and includes the findings of the hydrogeologic characterization, soil gas survey, soil sampling and ground water sampling.

#### 3.1 HYDROGEOLOGIC CHARACTERIZATION

Geologic logs from all soil borings installed between November 2000 and August 2002 (a total of 27) are presented in Appendix C. These logs indicate that the native soil at the Site consists of well-stratified fine, medium and coarse sand with traces of gravel. These deposits are typical of the Upper Glacial Formation. A small amount of surficial fill was also found adjacent to and beneath the building. This fill layer extends below grade to a maximum of five feet where present and consists of clay, silt and fine sand.

Ground water was found at 48 to 49 feet below grade. Based on the surveyed well elevations and the depth to water measurements recorded on 12 December 2000, a water table contour map was constructed and is presented as Figure 3-1. As indicated in this figure, the ground water flow direction is southeast at an approximate average gradient of 0.0015. This is consistent with published data for the vicinity of the Site.

#### 3.2 SOIL GAS SURVEY RESULTS

The soil gas survey results are presented in Table 3-1 and Figure 3-2. The figure shows that soil gas underlying the areas tested in the southern portion of the J&H Site generally contains PCE at levels ranging from ND to  $100 \, \mu g$ -PCE/L. However, the soil gas results indicated there are three locations where soil gas concentrations were elevated in comparison to the

rest of the survey area. Each of the locations listed below were found to have soil gas concentrations greater than 200 µg-PCE/L:

- 1. The largest area with elevated soil gas surrounds the previously known PCE source area near monitoring well MW-2. Soil gas concentrations in this area were found to range from 126 to 1071 µg-PCE/L.
- 2. A single elevated point of  $660 \mu g$ -PCE/L was found at survey point B-10. This location is just inside a man-door along the east wall of the building.
- 3. A single elevated point of 311  $\mu$ g-PCE/L was found at survey point L-2. This location is adjacent to a concrete pad and storage trailers south of the building.

#### 3.3 SOIL SAMPLING RESULTS

Based on the soil gas results, eight locations were initially selected for additional soil sampling during the investigation conducted in 2000 (see Figure 3-3). These locations are summarized as follows:

Boring ID	Location	Purpose
SB-7	Approx. 20 feet east of well	Horizontal delineation of
	MW-2	MW-2 source area
SB-8	Approx. 40 southeast of well	Horizontal delineation of
	MW-2 at soil gas grid location	MW-2 source area and
	E-4	investigation of elevated soil
		gas detection
SB-9	Adjacent to soil gas grid	Investigation of elevated soil
	location L-2	gas detection
SB-10	Adjacent to soil gas grid	Characterization of MW-2
	location C-6	source area and investigation
		of elevated soil gas detection
SB-11	Adjacent to soil gas grid	Characterization of MW-2
	location D-7	source area and investigation
		of elevated soil gas detection
SB-12	Approx. 10 feet east of soil	Investigation of elevated soil
	gas grid location B-10	gas detection
SB-13	Adjacent to well MW-2	Vertical delineation of MW-2
		source area
SB-14	Adjacent to soil gas grid	Horizontal delineation of
	location A-6	MW-2 source area

As shown in the summary above, soil samples were collected in the three areas of elevated soil gas concentration. In addition, further characterization of the nature and extent of the known PCE source area around monitoring well MW-2 was also performed. Based on these sampling results, seventeen additional borings were installed in December 2001 and August 2002 to complete the delineation of the impacted areas (see Figure 3-4 for locations). These borings were situated as follows:

Boring ID	Location	Purpose
SB-15	15 feet north, south, east and	Horizontal and vertical
through	west of SB-9	delineation of source area near
SB-19		the concrete pad
SB-20	Various locations northwest	Horizontal and vertical
through	of MW-2 inside the building	delineation of MW-2 source
SB-23		area
SB-24	Various locations northwest,	Horizontal and vertical
through	west and southwest of SB-9	delineation of source area near
SB-31		the concrete pad

The soil sample analytical results from the field GC screening conducted during the 2000 investigation are presented in Table 3-2. The split-sample results from the State-certified laboratory are given in Table 3-3. Both data sets indicate exceedences of the NYSDEC RSCOs, which are summarized as follows:

	<b>Analytes Exceeding RSCOs</b>	Analytes Exceeding RSCOs
Boring ID	(Field GC)	(State-Certified Lab)
SB-7	None	Acetone
SB-8	cis-1,2-DCE	cis-1,2-DCE
SB-9	PCE	None
SB-10	PCE, TCE	PCE, TCE
SB-11	PCE, cis-1,2-DCE	PCE
SB-12	None	None
SB-13	PCE, TCE, cis-1,2-DCE	PCE, TCE, cis-1,2-DCE
SB-14	None	None

The results of the samples analyzed by State-certified laboratory are generally lower in concentration than those analyzed by field GC. Based

on comparison to the RSCOs, there were two minor discrepancies between the data sets, as discussed below.

- In boring SB-9, the field GC results for PCE were slightly above the RSCO, while the State-certified laboratory results were slightly below the RSCO.
- In boring SB-11, the field GC results for cis-1,2-DCE were slightly above the RSCO, while the State-certified laboratory results were slightly below the RSCO.

Overall, the comparison between the two data sets indicates an acceptable level of corroboration. It is concluded that the combination of the field GC and State-certified laboratory samples provide adequate data to identify potential source areas at the Site.

In addition to the split-sample data, Table 3-3 provides analytical results for all other soil samples collected by ERM at the Site. These results (along with pre-existing sampling data) are presented in Figure 3-4. This figure provides a map view of the sampling results and posts the highest detected concentration in each boring. The data indicate there are two separate areas where soil concentrations exceed the NYSDEC RSCOs: (1) the area around well MW-2, extending beneath the building; and (2) near the concrete storage pad south of the building. Further discussion of these areas is given below.

#### Well MW-2 Area

Figure 3-4 indicates that the areal extent of soil impacts above the PCE RSCO of 1,400  $\mu$ g/kg is well defined. The vertical extent of contamination can also be evaluated based on analytical results from soil samples collected at depth within the impacted area. These data are summarized in Table 3-4 and indicate that the impacted soil zone does not extend beyond ten feet below grade.

#### **Concrete Pad Area**

The results of the soil borings conducted around the concrete pad south of the building indicate full horizontal delineation of the area of impacted soil above the RSCOs (see Figure 3-4). Table 3-4 presents the vertical delineation data from within the impacted zone. These data indicate that the vertical extent of impacted soil above the RSCOs is limited to within ten feet below grade.

#### 3.4 GROUND WATER SAMPLING RESULTS

The results from the ground water sampling event conducted in November 2000 are presented in Table 3-5a. Data from the May 2002 sampling round is presented in Table 3-5b. A plan view showing both data sets is given as Figure 3-5. A number of conclusions have been drawn and are presented below:

- Sampling results from wells MW-3 and MW-4 indicates that ground water entering the property from upgradient does not contain detectable levels of VOCs. Results in well MW-3 are consistent with previous sampling in 1999.
- The current levels of VOCs in the known source area at well MW-2 are within the range detected by previous sampling in 1999.
- New well MW-5 indicates the presence of a dilute VOC plume emanating from the MW-2 source area.
- The VOC impacts found in well MW-1 are likely due to the source area identified at the concrete pad, which is directly upgradient of this well.
- A comparison of the two sampling rounds indicates a generally consistent picture of ground water quality. Several minor differences are noted when comparing the November 2000 results with the December 1999 results including:
  - A slight concentration increase was noted in well MW-1; and
  - A slight concentration decrease was noted MW-5.

The NYSDEC office in Stony Brook, New York was contacted to obtain all known production well information within a half-mile radius of the Site. NYSDEC maintains records for production wells with capacities greater than 45 gallons per minute. The results indicated a total of 14 wells within a half-mile radius of the Site. The locations of all identified wells were plotted on USGS 7.5' Quadrangle maps of Hicksville, Lynbrook, Sea Cliff and Freeport, New York, (Figure 3-6). In addition, Table 3-6 provides a listing of all wells located within the well search radius including well owner, well address, distance and direction from the site, casing diameter, screen diameter, total depth below surface, casing length, screen length, depth to ground water, discharge rates and well use. A copy of each production well record is provided as Appendix D. A total of four wells were identified that are located more or less downgradient from the Site. These wells are highlighted on Table 3-6 and summarized below:

	Year	Distance	Direction	
Well ID	Installed	from Site	from Site	Depth
N-2230	1947	1200 feet	Southeast	85 feet
N-3758	1951	950 feet	South	91 feet
N-8050	1966	2650 feet	Southeast	328 feet
N-5485	1972	2650 feet	Southeast	577 feet

The results of the well inventory indicate that the closest downgradient wells are N-2230 and N-3758. Well N-2230 usage was not specified. Well N-3758 was listed for general usage. Due to the shallow depth of these wells and the subsequent redevelopment of the area into an office building and shopping plaza, it was believed to be likely that these wells are no longer in service. To further evaluate this matter, the Carle Place Water District was contacted to determine if the street addresses in the vicinity of these wells are serviced by public water. A windshield survey was performed to verify the correct addresses covering the area of interest. This additional inquiry confirmed that 1 – 150 Old Country

Road and 150 Glen Cove Road are customers of the water district. It is therefore concluded that wells N-2230 and N-3758 are not being used for potable supply purposes.

Well N-8050 is listed for air conditioning use and is located approximately 2650 feet from the Site. It is 328 feet deep and screened in the Magothy aquifer. The permitted discharge is 140 gallons per minute. The intended use of this well does not indicate significant potential for human exposure, however further investigation was performed to determine the current status of this well through communication with the Hempstead Water District. This additional inquiry confirmed that the address of this well (100 Ring Road West) is connected to the water district distribution network. It is therefore concluded that well N-8050 is not being used for potable supply purposes.

The nearest downgradient public supply well (N-5485) is located approximately 2650 feet southeast of the Site and has a maximum permitted discharge of 1,400 gallons per minute. This well is 557 feet deep and is screened in the mid-Magothy aquifer. According to records obtained from the Nassau County Department of Health, this well was abandoned in 1991 due to nitrate and organic contamination.

## 4.0 DATA VALADATION

The overall objective of the data validation process is to determine what degree of confidence may be placed on the analytical results. The validation process identifies deviations from the required methods, poor quality control (QC) results, matrix interference and other analytical problems that may compromise the potential uses of the data. The analytical data were qualified and appropriately flagged by the validator. This information was taken into account during the interpretation of the data.

The validation of the J&H data was limited to the most recent soil and ground water sampling conducted during 2001 and 2002. Data Usability Summary Reports (DUSR's) were prepared for these data in accordance with the following protocols and procedures:

- The United States Environmental Protection Agency (USEPA)/ Contract Laboratory Protocol (CLP) National Functional Guidelines for Organic Data Review (February 1994);
- SOP HW-6, Revision 11, June 1996: CLP Organics Data Review and Preliminary Review;
- the 1995 New York State Analytical Services Protocols (ASP); and
- the reviewer's professional judgment.

A preliminary review of the data was performed to verify that all of the necessary paperwork, such as chain-of-custodies, traffic reports, analytical reports, and deliverable packages were present. A detailed quality assurance review was then performed by a qualified ERM chemist to verify the qualitative and quantitative reliability of the data as it was provided by the laboratory. The specific items and criteria that were reviewed are summarized in the validation reports (see Appendix E).

The validation reports highlight the data results that did not meet QC limits and therefore may have required data qualification. The validation

The validation reports highlight the data results that did not meet QC limits and therefore may have required data qualification. The validation results are presented in tables when possible, which summarize the quality control data as compared to the QC limits. These tables include information such as, blank contamination, surrogate recoveries and internal standard area counts that did not meet QC criteria. The reports also indicate the data qualification actions taken as a result of these criteria.

Based upon the data validation process, qualification of data, where appropriate, are made by the use of qualifier codes. These qualifiers serve as an indication of the qualitative and quantitative reliability of the data. The qualifier codes utilized for all samples are as follows:

- U Compound was analyzed for, but not detected.
- J Estimated value. Value was designated as estimated as a result of the data validation criteria. Also used to indicate tentatively identified compounds (TICs) or when an organic compound is present (mass spectral identification criteria are met), but the concentration is less than the Contract Required Quantitation Limit (CRQL).
- B for organics: Analyte found in associated blank as well as in sample, however value is greater than the action level and has not been negated as blank contamination.
- D Compound identified in an analysis at a secondary dilution factor.
- R Rejected. On this project, this qualifier was used only for tentatively identified compounds (TICs) rejected due to laboratory derived contamination.

The result of the review of the J&H Site data indicate that the analytical results are valid and usable with the qualifications noted in the validation reports provided as Appendix E. All data qualifiers were taken into account during the interpretation of the analytical results. No target compound analytical data were rejected based on the validation

#### 5.0 CONCLUSIONS AND RECOMMENDITIONS

#### 5.1 CONCLUSIONS

The conclusions of the Site investigation at the J&H Manufacturing Corp. facility in Carle Place, NY are listed as follows:

- The native soil at the Site consists of well-stratified fine, medium and coarse sand with traces of gravel typical of the Upper Glacial Formation. Up to five feet of surficial fill was also found adjacent to and beneath the building consisting of clay, silt and fine sand.
- Ground water at the Site flows southeast with an approximate average gradient of 0.0015.
- The soil gas survey identified three areas where soil gas concentrations were greater that 200 μg-PCE/L:
  - The largest area with elevated soil gas surrounds the previously known PCE source area near monitoring well MW-2. Soil gas concentrations in this area were found to range from 126 to 1071 μg-PCE/L.
  - A single elevated point of 660 μg-PCE/L was found at survey point B-10. This location is just inside a man-door along the east wall of the building.
  - A single elevated point of 311  $\mu$ g-PCE/L was found at survey point L-2. This location is adjacent to a concrete pad and storage trailers south of the building.
- The soil sample results indicate there are two separate areas where soil
  concentrations exceed the NYSDEC RSCOs: (1) the previously known
  area around well MW-2; and (2) near the concrete storage pad and
  trailers south of the building.
- Soil sample results at elevated soil gas location B-10 did not indicate exceedences of the NYSDEC RSCOs.
- The vertical extent of impacted soil in the MW-2 area is less than ten
  feet below grade. The vertical extent of impacted soil in the concrete
  pad area is less than five feet below grade.
- Ground water entering the property from upgradient does not contain detectable levels of VOCs.
- A plume of VOC-impacted ground water emanates from the two impacted soil areas and potentially extends off-site.

- Public records indicate the possible presence of two shallow wells within about 1,000 feet downgradient of the Site. These wells are believed to be out-of-service/abandoned. The local water purveyor was contacted and it was confirmed that these locations are connected to their distribution system.
- The nearest public supply well is located 0.5 mile southeast of the site and is 557 feet in depth. This well has been out-of-service since 1991.

#### 5.2 RECOMMENDATIONS

## 5.2.1 Recommendations for Soil

As concluded in Section 5.1, there are two areas where soil contains VOCs at concentrations exceeding the NYSDEC RSCOs:

- the previously known area around well MW-2 (hereafter referred to as Area A); and
- near the concrete storage pad and trailers south of the building (hereafter referred to as Area B).

Two basic remedial approaches were considered to address soils in these two areas: (1) in-situ remediation; and (2) soil excavation with off-site disposal. The main advantage of excavation and off-site disposal is rapid completion of the remedial process. However, there are several disadvantages of excavation and off-site disposal, including:

- The southeast corner of the building would need to be demolished to allow excavation to a depth of up to 10 feet under the building slab (applies to Area A only).
- Excavated soil would be classified as RCRA-hazardous and some of the soil would likely be land-banned, making disposal very costly.
- Excavation would result in a significant short-term disturbance.
- Excavation would result in short-term potential releases of PCE emissions that would require monitoring and possibly controls.

The most significant issue raised above is the need to address soil under the building slab in Area A. To most efficiently address soil in this location, an in-situ remedial technology is recommended. Considering the high volatility of the contaminants of concern, in-situ soil vapor extraction (SVE) is the recommended technology for this site.

Excavation is a feasible alternative for Area B. However, if an SVE system is installed at the Site to address Area A, the cost for installing an extraction well in Area B and piping the Area B well to the SVE system would be low in comparison to excavation and off-site disposal of hazardous soil at this location. It is therefore recommended that in-situ SVE be to use to address Area B as well.

SVE is a relatively simple in-situ remedial technology for addressing VOC contamination in the vadose (unsaturated) zone. To implement this technology, a blower is used to apply a vacuum to an extraction well, or network of wells that is screened in the vadose zone through the contaminated interval. The vacuum induces a flow of vapor towards the extraction well, and as the vapor passes through the contaminated formation, VOCs volatilize into the vapor stream. The resultant VOC laden vapor is then withdrawn from the extraction well and the contaminants are removed through an emission control device prior to discharging the soil vapor to the atmosphere.

The effectiveness of SVE is greatly dependent on the volatility of the contaminants of concern, the permeability of the contaminated matrix, as well as the number and rate of pore volume exchanges accomplished. The contaminants of concern at the Site include PCE and DCE. These compounds have sufficient volatility for SVE to be effective. Based on the geologic data developed at this site, the subsurface in the impacted areas consist of a shallow fill layer of variable composition, underlain by well stratified fine, medium and coarse sand. The fill material varies from silt and clay to coarse sand and gravel. These areas of fine-grained fill will require special consideration to ensure that SVE is effective. Further discussion of this issue is provided below.

### Area A System

Based on the delineation of Area A, the soil that requires remediation is restricted to an area no greater than 80 feet by 80 feet (6,400 square feet) by 10 feet deep. Based on our experience in applying SVE, we anticipate that a single SVE well would have a radius of influence (ROI) of at least 30 feet. The ROI will likely be greater than 30 feet, however a pilot test would be necessary to accurately determine the site-specific ROI. Considering the small area that needs to be addressed, the cost of a pilot test is not warranted in this situation. Rather we recommend using a conservative ROI for designing the SVE system. Based on a 30-foot ROI and using a 20% overlap to ensure complete coverage, each well would address an area of 2,260 square feet (sq. ft.). Thus a total of three extraction wells would be needed to address Area A. These wells would be located in a triangular pattern with a passive inlet well in the center to prevent a stagnation zone. It would also be recommended to install an impermeable vapor barrier at the surface in areas within Area A that are currently not covered with either concrete or asphalt. This would prevent atmospheric short-circuiting and will also prevent precipitation from being withdrawn with extracted vapors.

The above paragraph provides the general concept for the size and scope of the SVE system for Area A, however it does not address the issue of the possible presence of shallow fine grained fill. This will be evaluated in detail as part of the design process, but it is anticipated that this issue will likely be addressed by the use of nested extraction wells. Nested wells will enhance control of the subsurface gas flow and permit the flows to be concentrated at particular horizons.

## Area B System

The soil sampling data indicates that the impacted zone in Area B is approximately 50 feet long by 25 feet wide by up to eight feet deep. Considering the shallow depth of contamination in this area and the absence of structures, it is recommended that a single horizontal extraction trench be installed to run the entire length of Area B (which is not yet determined) and placed in the center of the 25-foot wide area. The horizontal well would be installed by excavating a narrow trench (approximately one-foot wide) and installing a perforated pipe. The trench would be back filled with gravel and all of Area B would then be capped with an impermeable cover to prevent atmospheric short-circuiting and to prevent precipitation from being withdrawn with extracted vapors.

The above paragraph provides the general concept for the size and scope of the SVE system for Area B, however it does not address the issue of the possible presence of shallow fine-grained fill. Boring logs from within the impacted area indicate the presence of this material in borings SB-9 (1.0 feet) and SB-16 (2.0 feet), however none was found in boring SB-24. This will be evaluated in detail as part of the design process, but it is anticipated that this issue will likely be addressed by removing this material prior to installing the horizontal vapor extraction pipe. This pipe would then be installed at approximately four to five feed below grade.

## SVE Equipment

The vertical wells from Area A and the horizontal well from Area B would be piped to a common manifold. Each well would have its own air control valve, gas flow monitoring port, and sample/vacuum monitoring port. The SVE equipment will include the following:

- vacuum blower;
- moisture separator;
- dilution air inlet;
- in-line air filter;
- emission control device; and
- instrumentation and controls.

The vacuum blower will induce a flow of soil vapor from each well and through the moisture separator and air filter. The blower outlet would be piped into the emission control device to remove contaminants from the vapor stream prior to being emitted to the atmosphere.

The capacity of the blower needs to be sufficient to allow sufficient pore volume changes in a given period of time and to allow a sufficient ROI to be achieved. A gas flow of 150 cubic feet per minute (cfm) for Area A would correspond to a turnover of 340 pore volumes per month. This represents a relatively aggressive design basis.

A gas flow of 50 cfm for Area B would correspond to a turnover of 1150 pore volumes per month. Assuming a horizontal screen length of about 50 feet results in an extraction flow of 1.0 cfm per foot of screen. This also represents a relatively aggressive design basis. Thus a total gas flow of 200 cfm would be more than sufficient for addressing contaminated soil in both areas simultaneously. During the design phase, these gas flow rates would be revisited and consideration will be given to a system that alternates among wells or between the two areas in order to reduce the size of the extraction blower.

The SVE system would include a moisture separator to remove condensation or entrained moisture from the vapor stream. Considering that a surface cover will be used and vapor is extracted only from the shallow soil, it is anticipated that very little liquid will accumulate in the moisture separator. Thus an automated system is not necessary to remove liquid from the moisture separator. Rather moisture would be manually

drained and containerized for characterization and off-site disposal in an appropriate manner based on the characterization results. The moisture separator would include a high level switch that would shut the system down to prevent moisture from being withdrawn into the vacuum blower.

For emission controls it is recommended that vapor phase granular activated carbon (GAC) be used. GAC is a simple and reliable technology that is very effective for removing the contaminants of concern at the site. It is proposed that two GAC vessels be used in series to ensure adequate emission controls. Based on the soil sampling results it has been estimated that a total VOC mass would likely not exceed 600 pounds. A reasonable loading efficiency for the contaminants of concern onto vapor-phase GAC is 10 pounds of VOC per 100 pounds of GAC. This would result in a total GAC usage of approximately 6,000 pounds. Spent GAC would be handled as a hazardous waste and sent off-site for regeneration.

## Follow-up Required

A Remedial Action Work Plan (RAWP) will be developed that will include a conceptual design of the SVE system along with a proposed operations and monitoring plan. In addition, a confirmatory soil sampling plan will be included in the RAWP that will be the basis of establishing the SVE shutdown criteria

## 5.2.2 Recommendations for Ground Water

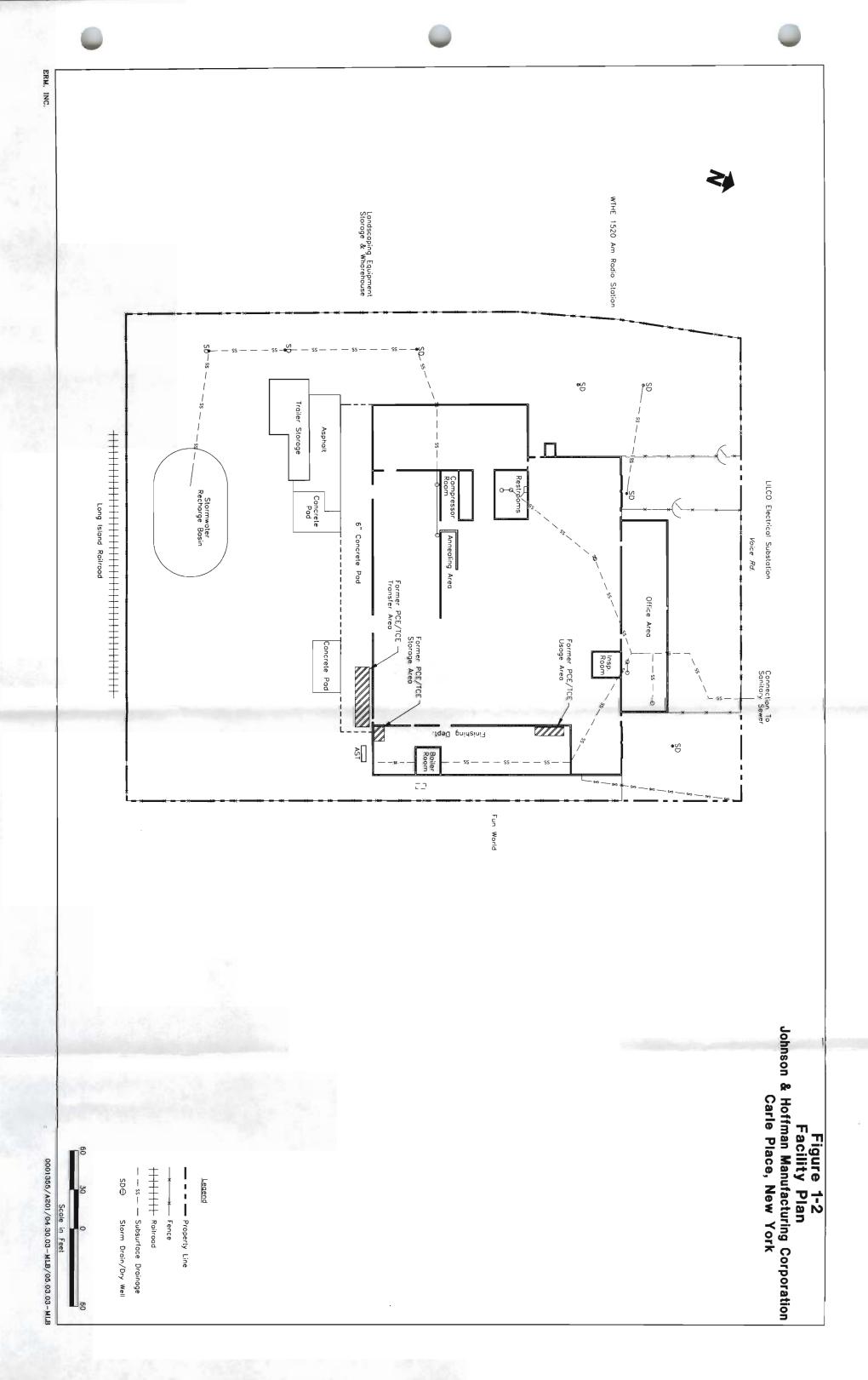
The conclusions presented in Section 5.1 state that VOC contamination originates from, and extends downgradient of, the two impacted soil areas documented in Section 3.3. This VOC contamination potentially extends off-site to the south. It is recognized that full delineation of VOC-impacted ground water is necessary. However, it is also noted that the

well search data does not indicate an imminent threat to human health or the environment.

It is recommended that additional investigation work be performed to complete the required ground water delineation. This will be conducted in a phased manner, with an initial phase to investigate the proximal offsite conditions, followed by later phases further away from the Site as needed to complete the delineation. The initial work will consist of the installation of three to four Geoprobe borings at off-site locations to be determined based on access considerations. These borings will penetrate to a depth of 20 feet below the water table to allow the collection of two ground water samples per boring. One shallow sample will be collected at the water table, and the second sample will be collected 20 feet below the water table for vertical delineation purposes. Concurrent with the collection of these Geoprobe samples, a full round of monitoring well samples will also be collected for the entire Site and a new water table contour map will be prepared. All samples will be analyzed for VOCs using EPA Method 624. Based on this new information, a proposal for a second phase of off-site investigation will be prepared if necessary and submitted to NYSDEC.

In addition, it is recommended that further work be performed to confirm that the two shallow off-site supply wells are no longer in service. This will be done by obtaining billing records from the local water purveyor and confirming that these addresses are being serviced by public water.

### Figure 1-1 Site Location Map Johnson & Hoffman Manufacturing Corporation Carle Place, New York H M ON PARK East Williston Walage Hall Carle Place MENEOLA MINEOLA Carle Place Site Location HE M P S T Roos Rac NTERCHANGE Golf CITY GARDEN CITY OF LAND Abandoned 2,000 Scale in Feet



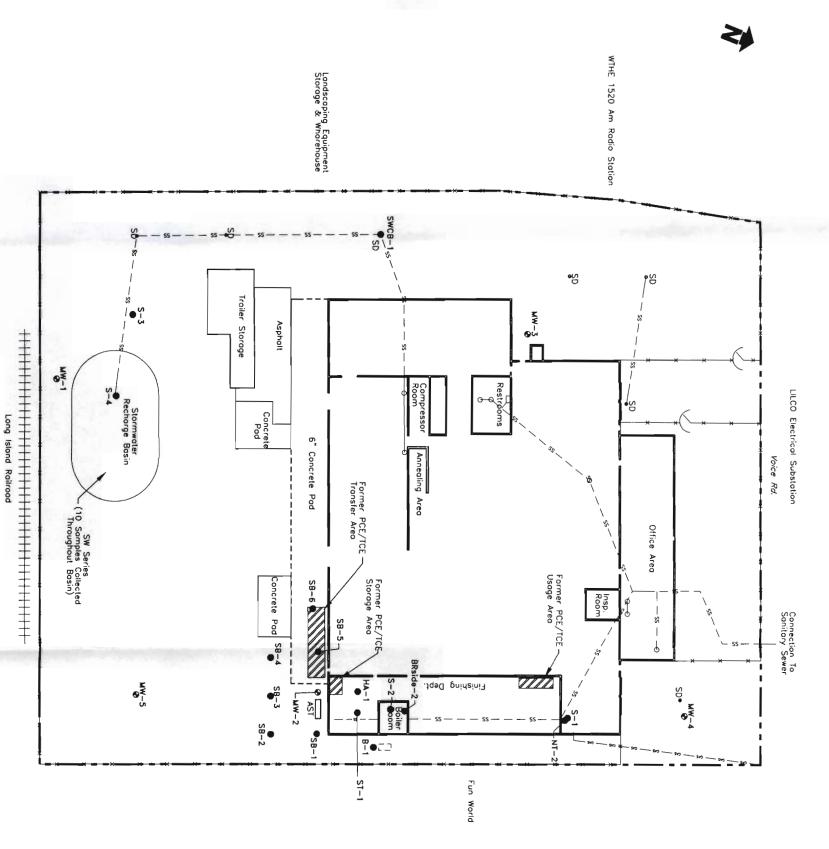


Figure 1-3
Historic (pre-2000) Soil Sample Locations
Johnson & Hoffman Manufacturing Corporation
Carle Place, New York

0001355/A205/05.01.03-MLB

Scale in Feet

HHHHH Railroad

Subsurface Drainage

Storm Drain/Dry Well
Monitoring Well
Soil Sample Location

--- Property Line

- Fence

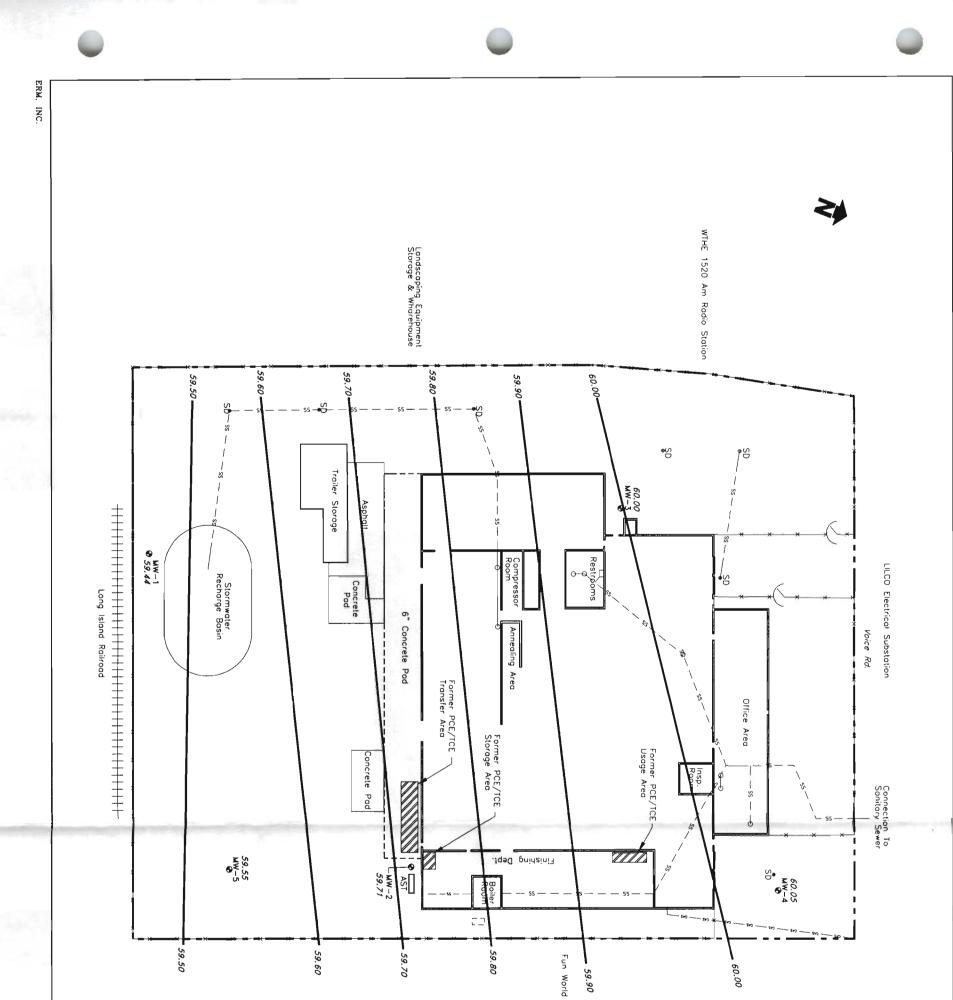


Figure 3-1
Water Table Contour Map
12 December 2000
Johnson & Hoffman Manufacturing Corporation
Carle Place, New York

0001355/A202/04.30.03-MLB/05.05.03-MLB

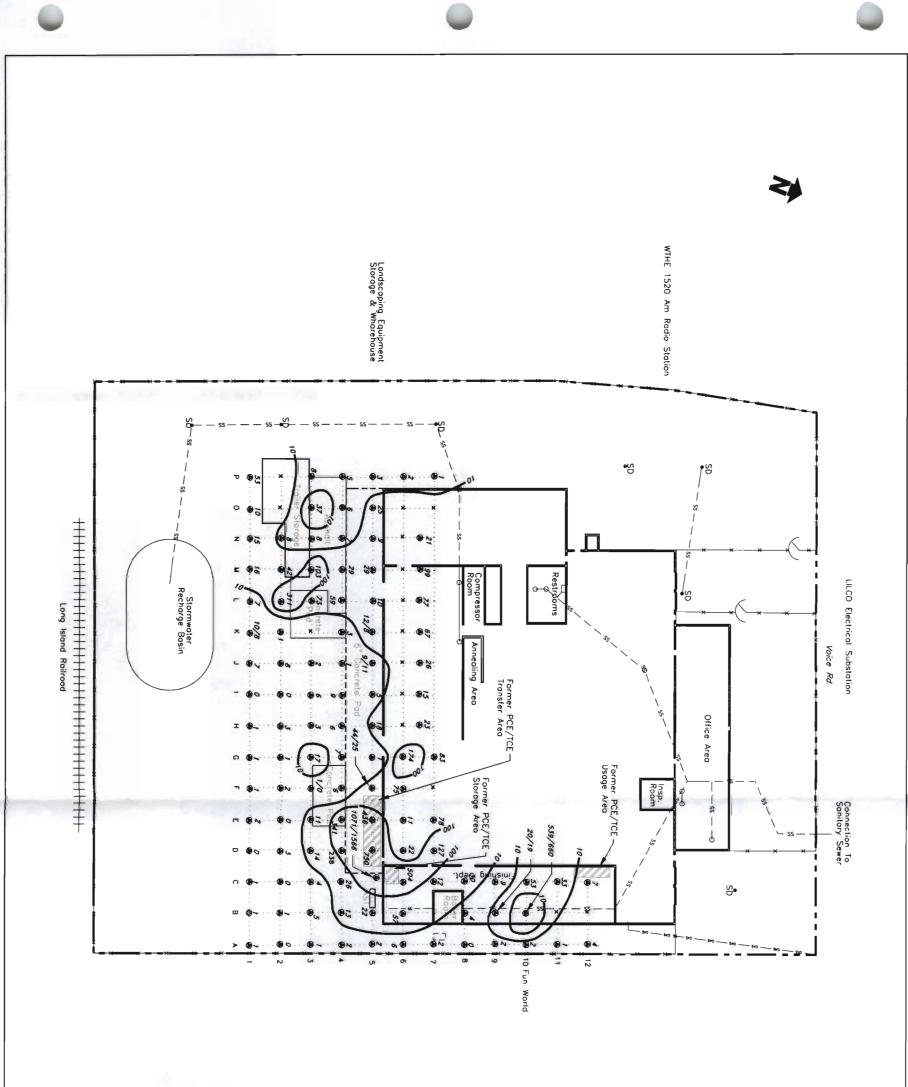


Figure 3-2
Soil Gas Survey Results
October 2000
Johnson & Hoffman Manufacturing Corporation
Carle Place, New York

ERM, INC.

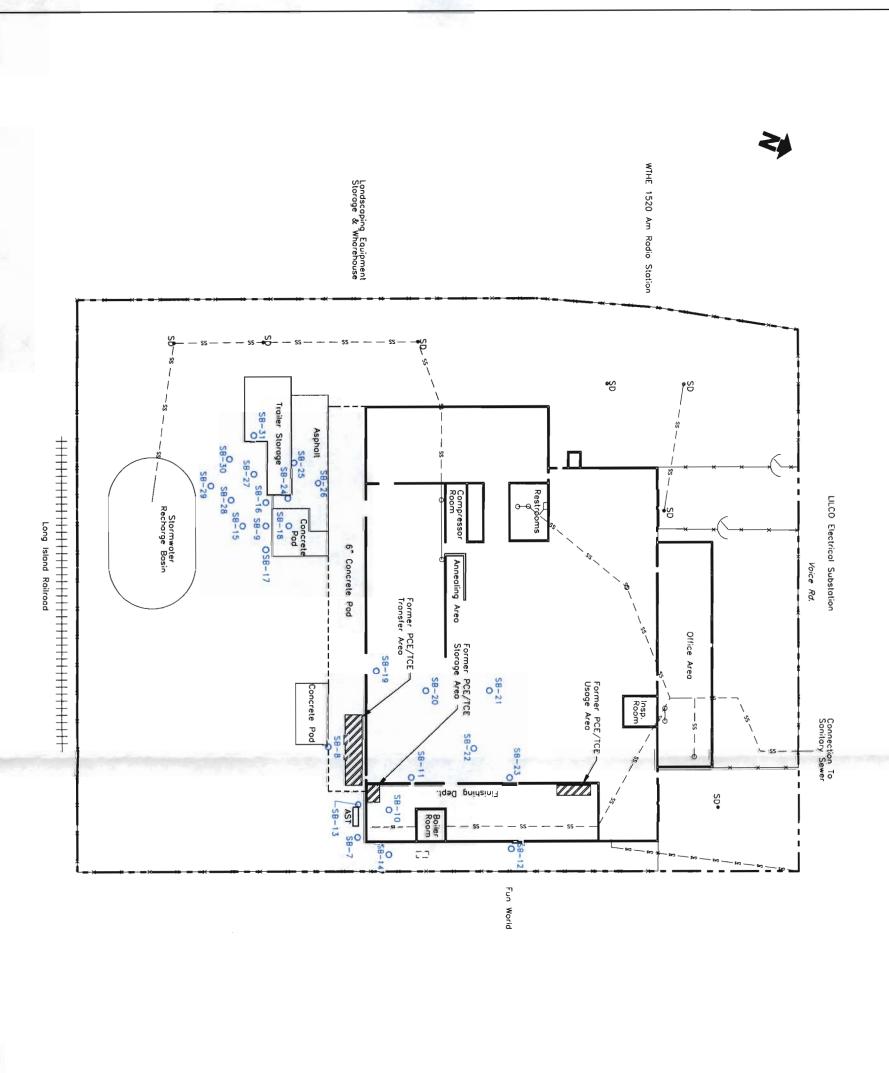


Figure 3-3
Soil Sample Locations
(2000-2002)
Johnson & Hoffman Manufacturing Corporation
Carle Place, New York

SDD Storm Orain/Dry Well

O New Soil Boring Location

60 30 0

Scale in Feet

++++++ Railroad

— — ss — — Subsurface Drainage

Property Line

\* Fence

ERM, INC.

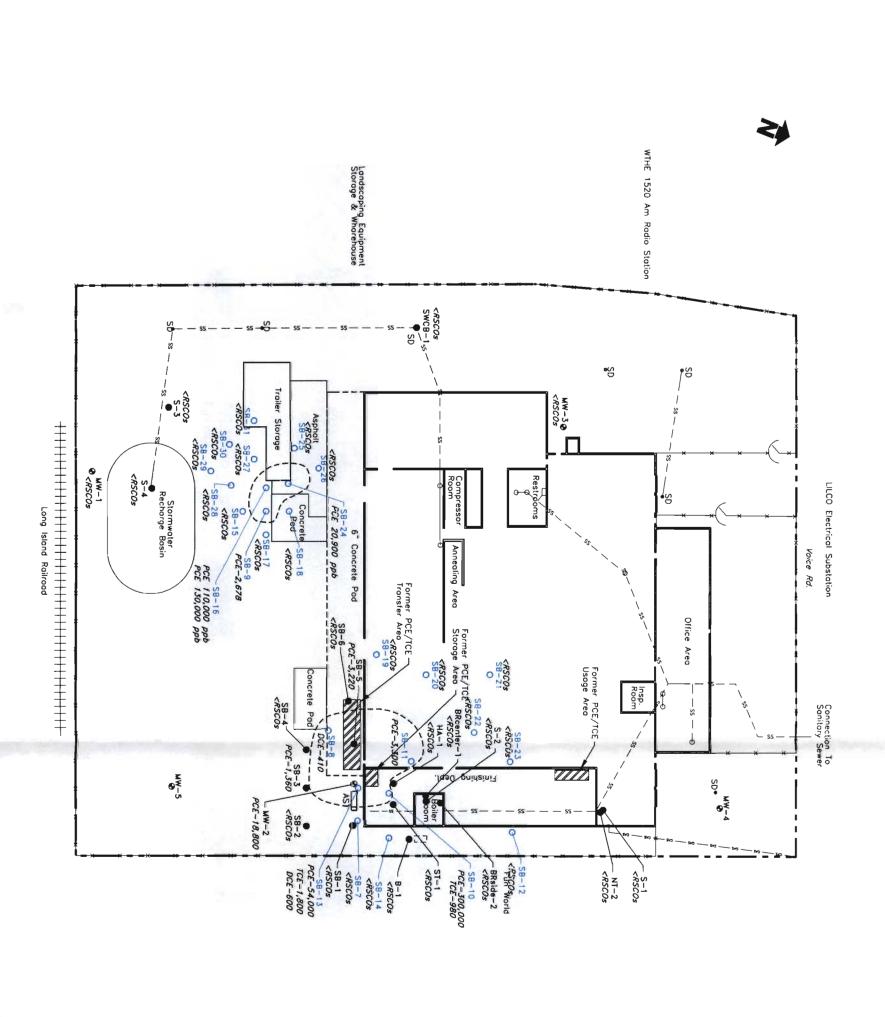


Figure 3-4
Horizontal Delineation of PCE, TCE & DCE in Soil Above NYSDEC RSCOs
Johnson & Hoffman Manufacturing Corporation
Carle Place, New York

#### DCE RSCO PCE-3,220 PCE RSCO -<RSCOs SDO Legend 250 ug/Kg Railroad Fence 700 ug/Kg Detected Level of PCE = 3,220 ug/kg Less Than NYSDEC Recommended Soil Cleanup Objectives for PCE, TCE & DCE Hidtoric Soil Sample Location (pre-2000) Property Line 1,400 ug/Kg Area of Soil Above RSCOs for PCE, TCE & DCE New Soil Boring Loaction (post-2000) Storm Drain/Dry Well Monitoring Well Subsurface Drainage

ERM, INC.

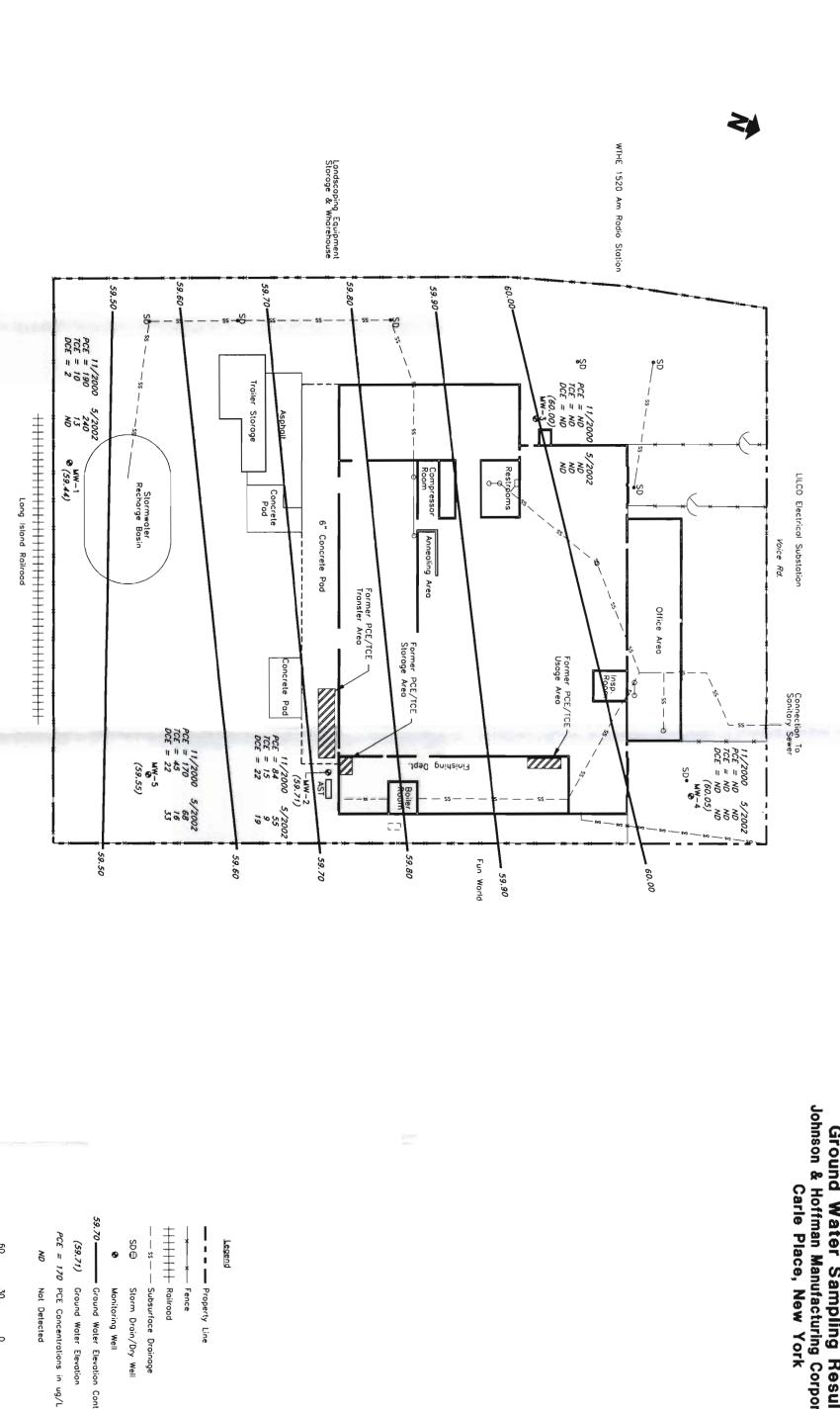


Figure 3-5
Ground Water Sampling Results
Johnson & Hoffman Manufacturing Corporation
Carle Place, New York

0001355/A204/05.01.03-MLB/05.05.03-MLB

Seale in Feet

Subsurface Drainage

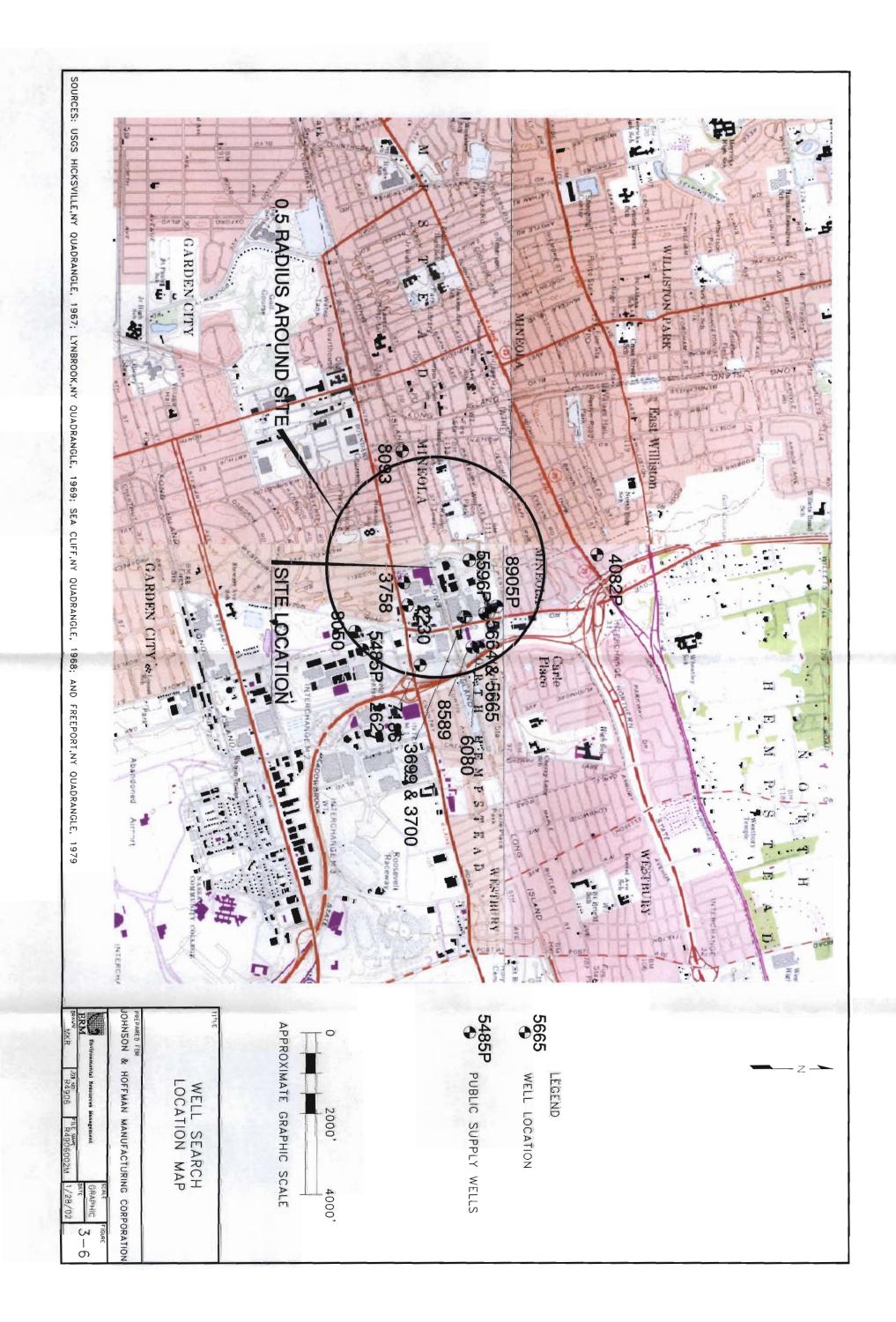
Storm Drain/Dry Well Monitoring Well

- Fence

Ground Water Elevation Contour

Not Detected

ERM. INC.



### **TABLE 1-1**

### Summary of Historic Soil Sampling Results J&H Manufacturing Site Carle Place, New York

Sample		Depth	Analyses	Analytes
ID	Date	(feet bg)	Performed	<b>Exceeding RSCOs</b>
NT-1	1/3/97	2.0 - 4.0	VOCs, TPH,	Cr
			PP Metals	
NT-2	1/3/97	3.0 – 5.0	VOCs,	None
NT-2	1/3/97	5.5 – 6.0	VOCs, TPH,	Cr
			PP Metals	
ST-1	1/3/97	5.5 – 6.0	VOCs, TPH,	Cr, Hg, Ni, Zn
			PP Metals	
BRcenter-1	1/3/97	$5.5 - 6.0^{1}$	Pb & Hg	Hg
BRside-2	1/3/97	$4.0 - 4.5^{1}$	VOCs, TPH,	None
			RCRA Metals	
SWCB-1	1/3/97	15.5 - 16.0 <sup>1</sup>	VOCs, TPH,	None
			PP Metals	
S-1	1/22/97	4.0 – 4.5	VOCs, TPH,	Cr
			RCRA Metals	
S-2	1/22/97	4.0 - 4.5	VOCs, TPH,	Cd
			RCRA Metals	
S-3	1/22/97	0.0 - 0.25	VOCs,	Cd, Hg, Pb
			RCRA Metals	
S-4	1/22/97	0.0 - 0.5	VOCs, TPH,	Cr, Pb
	, ,		RCRA Metals	
SW-1	9/97	0.0 - 0.5	PAHs	See Note <sup>2</sup>
SW-1a	11/97	4.0 – 4.5	PAHs (TCLP)	None <sup>3</sup>
SW-2	11/97	0.0 - 0.5	PAHs (TCLP)	None <sup>3</sup>
SW-2a	11/97	4.0 - 4.5	PAHs (TCLP)	None <sup>3</sup>
SW-3	11/97	0.0 - 0.5	PAHs (TCLP)	None <sup>3</sup>
SW-3a	11/97	4.0 - 4.5	PAHs (TCLP)	None <sup>3</sup>
SW-4	11/97	0.0 - 0.5	PAHs (TCLP)	None <sup>3</sup>
SW-4a	11/97	4.0 – 4.5	PAHs (TCLP)	None <sup>3</sup>
SW-5	11/97	0.0 - 0.5	PAHs (TCLP)	None <sup>3</sup>
SW-5a	11/97	4.0 - 4.5	PAHs (TCLP)	None <sup>3</sup>
SW-T	9/97	UST invert	PAHs	None
SB-1	2/16/99	12.0 - 14.0	VOCs	None
SB-2	2/16/99	12.0 – 14.0	VOCs	None
SB-3	2/16/99	2.0 - 4.0	VOCs	None
	, ,	12.0 - 14.0	VOCs	None
SB-4	2/16/99	6.0 – 8.0	VOCs	None
	, ,	12.0 - 14.0	VOCs	None
SB-5	2/16/99	2.0 - 4.0	VOCs	PCE
		12.0 - 14.0	VOCs	None
SB-6	2/16/99	4.0 - 6.0	VOCs	None
	,	12.0 - 14.0	VOCs	None
HA-1	2/16/99	3.5 - 4.0	VOCs, SVOCs	Be, Cr, Ni, Zn
	, ,		and PP Metals	
MW-1	2/12/99	14.0 - 16.0	VOCs, SVOCs	None
	, ,		and PP Metals	
MW-2	2/12/99	2.0 - 4.0	VOCs, SVOCs	PCE, Be, Cr
	,	45.0 - 47.0	and PP Metals	None

### TABLE 1-1 (cont'd)

### Summary of Historic Soil Sampling Results J&H Manufacturing Site Carle Place, New York

Sample		Depth	Analyses	Analytes
ID	Date	(feet bg)	Performed	Exceeding RSCOs
MW-3	2/12/99	44.0 - 46.0	VOCs, SVOCs	None
			and PP Metals	
B-1	2/12/99	10.0 - 12.0	VOCs, SVOCs	None
		18.0 - 20.0	VOCs, SVOCs	None

<sup>&</sup>lt;sup>1</sup> Collected from the upper sediments at the base of a dry well.

<sup>&</sup>lt;sup>2</sup> Benzo(a)anthracene, chrysene, benzo(b)flouroanthene, benzo(k)flouranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene

<sup>&</sup>lt;sup>3</sup> No detectable concentration of PAH compounds in TCLP extract

TABLE 1-2
Inorganic Analytes Above RSCO Values in Historic Soil Samples
J&H Manufacturing Site
Carle Place, New York

		Analytes	Analytical	RSCO
Sample	Depth	Exceeding	Result	Value
ID	(feet bg)	RSCOs	(mg/kg)	(mg/kg)
Wastewat	er Trench			
NT-1	2.0 - 4.0	Chromium	11.5	10
NT-2	5.5 – 6.0	Chromium	35.7	10
ST-1	5.5 – 6.0	Chromium	24.5	10
		Mercury	0.89	0.1
		Nickel	15.2	13
		Zinc	44.6	20
S-1	4.0 – 4.5	Chromium	142	10
Boiler Ro	om Dry Wells			
Brcenter-1	$5.5 - 6.0^{1}$	Mercury	0.15	0.1
S-2	4.0 – 4.5	Cadmium	1.7	1.0
Surficial S	Scrap Parts			
S-3	0.0 - 0.25	Cadmium	5.8	1.0
		Mercury	0.2	0.1
		Lead	255	61
Stormwat	er Drainage Sy	stem		
S-4	0.0 - 0.5	Chromium	30	10
		Lead	120	61
Other San	nples			
HA-1	3.5 – 4.0	Beryllium	0.165	0.16
		Chromium	13.9	10
		Nickel	16.2	13
		Zinc	41.9	20
MW-2	2.0 - 4.0	Beryllium	0.195	0.16
		Chromium	11.4	10

TABLE 3-1
Johnson & Hoffman Manufacturing Corp.
Carle Place, NY
Soil Gas Survey
Results in (ug/1 air)

Sample ID	Gas-A1	Gas-A2	Gas-A3	Gas-A4	Gas-A5	Gas-A6	Gas-A7	Gas-A8	Gas-A9	Gas-A10	Gas-A11	Gas-A12
Sampling Date	10/25/00	11/1/00	10/25/00	10/26/00	10/24/00	10/26/00	10/24/00	10/26/00	10/25/00	10/25/00	10/26/00	10/25/00
Analysis Code	15.0	40.0	14.0	13.0	28.0	14.0	26.0	17.0	12.0	11.0	16.0	10.0
Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG
1,1 Dichlorethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
t-1, 2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
c-1, 2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.1	0.1	0.1	0.0	0.5	0.1	0.1	0.1	0.1	0.1	0.1
Tetrachloroethene	0.3	0.2	1.1	2.1	1.6	0.9	1.8	0.4	1.6	1.9	6.0	3.6

Sample ID	Gas-B1	Gas-B2	Gas-B3	Gas-B4	Gas-B5	Gas-B6	Gas-B8	Gas-B9	Gas-B10	Gas-C1	Gas-C2	Gas-C3
Sampling Date	11/1/00	10/26/00	10/24/00	10/26/00	10/23/00	10/23/00	10/24/00	10/24/00	10/24/00	10/25/00	11/1/00	10/26/00
Analysis Code	39.0	9.0	23.0	11.0	17.0	14.0	12.0	14.0	21.0	16.0	28.0	10.0
Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG
1,1 Dichlorethene	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
t-1, 2-Dichloroethene	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.3	0.0	0.1	0.0
c-1, 2-Dichloroethene	0.0	0.0	0:0	1.8	0.2	8.0	0.0	0.4	12.2	0.0	0.0	0.1
Trichloroethylene	0.1	0.1	0.1	8.0	2.0	1.8	6.0	1.4	38.6	0.2	0.0	0.3
Tetrachloroethene	9.0	1.3	4.7	12.6	21.7	57.3	4.4	18.9	539.4	1.0	0.4	3.6

Sample ID	Gas-C4	Gas-C5	Gas-C6	Gas-C7	Gas-C8	Gas-C9	Gas-C10	Gas-C11	Gas-C12	Gas-D1	Gas-D2	Gas-D3
Sampling Date	10/23/00	10/23/00	10/23/00	10/23/00	10/24/00	10/24/00	10/24/00	10/24/00	10/24/00	11/1/00	10/24/00	10/24/00
Analysis Code	18.0	16.0	13.0	23.0	10.0	13.0	16.0	19.0	20.0	37.0	25.0	19.0
Operator Initials	WLG	WLG	WLG	WLG								
1,1 Dichlorethene	0.8	3.8	2.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
t-1, 2-Dichloroethene	0.1	6.0	0.5	0.5	0.2	0.1	0.1	0.1	0.0	0.0	0.1	9.0
c-1, 2-Dichloroethene	0.5	26.7	19.0	0.1	1.1	9.0	8.5	6.0	0.5	0.0	0.1	0.3
Trichloroethylene	6:0	0.06	43.0	0.4	2.5	1.0	5.2	8.5	4.3	0.0	0.2	0.3
Tetrachloroethene	26.4	1566.4	504.0	11.7	29.8	9.4	53.0	32.8	6.7	0.1	3.2	13.5

TABLE 3-1
Johnson & Hoffman Manufacturing Corp.
Carle Place, NY
Soil Gas Survey
Results in (ug/l air)

Sample ID	Gas-D4	Gas-D5	Gas-D6	Gas-E1	Gas-E2	Gas-E3	Gas-E4	Gas-E5	Gas-E6	Gas-E7	Gas-F1	Gas-F2
Sampling Date	10/24/00	10/24/00	10/23/00	10/25/00	11/1/00	10/24/00	10/24/00	10/23/00	10/23/00	10/24/00	11/1/00	10/24/00
Analysis Code	12.0	9.0	20.0	17.0	35.0	20.0	14.0	25.0	21.0	24.0	34.0	29.0
Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG
1,1 Dichlorethene	0.0	1.7	6.0	0.0	0.0	0.0	0.1	0.7	6.0	0.0	0.0	0.0
t-1, 2-Dichloroethene	0.3	6.0	0.1	0.0	0.0	0.5	6.0	4.2	0.2	4.0	0.2	0.1
c-1, 2-Dichloroethene	23.9	21.6	4.0	0.2	0.0	0.5	19.2	80.5	0.1	20.4	0.0	0.0
Trichloroethylene	5.3	44.1	6:0	6.0	0.1	4.0	30.3	57.0	0.4	3.9	0.2	0.1
Tetrachloroethene	237.5	750.2	22.2	2.0	0.3	11.4	341.1	436.2	11.1	77.5	0.5	2.0

Sample ID	Gas-F3	Gas-F3(dup)	Gas-F4	Gas-F5	Gas-F5(dup)	Gas-F6	Gas-G1	Gas-G2	Gas-G3	Gas-G4	Gas-G5	Gas-G6
Sampling Date	11/1/00	11/1/00	10/24/00	10/24/00	10/24/00	10/26/00	10/25/00	11/1/00	10/24/00	11/1/00	11/1/00	10/26/00
Analysis Code	31.0	32.0	21.0	16.0	17.0	43.0	18.0	24.0	24.0	23.0	22.0	42.0
Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG
1,1 Dichlorethene	0.0	0:0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
t-1, 2-Dichloroethene	0.1	0.0	0.5	4.0	6.0	0.3	0:0	0.3	0.2	0.1	0.1	0.4
c-1, 2-Dichloroethene	0.2	0.1	0.2	1.6	0.7	6.4	0.0	0.2	1.8	1.0	0.1	11.8
Trichloroethylene	0.2	0.2	0.2	37.0	1.2	4.3	0.1	0.5	2.6	1.5	0.2	9.1
Tetrachloroethene	9.0	0.4	6.1	44.4	24.8	75.2	0.7	1.4	16.6	6.5	1.4	174.0

Sample ID	Gas-G7	Gas-H1	Gas-H2	Gas-H3	Gas-H4	Gas-H5	Gas-H6.5	Gas-I1	Gas-I2	Gas-I3	Gas-I4	Gas-I5
Sampling Date	10/24/00	11/1/00	10/24/00	11/1/00	10/24/00	10/24/00	10/25/00	10/25/00	11/1/00	10/26/00	10/26/00	11/1/00
Analysis Code	22.0	27.0	1.0	26.0	2.0	3.0	41.0	21.0	33.0	39.0	41.0	20.0
Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG
1,1 Dichlorethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0
t-1, 2-Dichloroethene	0.2	0.0	0.1	0.3	0.1	0.2	0.1	0.0	0:0	0.0	0.5	0.1
c-1, 2-Dichloroethene	6.9	0.2	0.2	9.0	8.0	1.6	9.0	0.0	0.0	0.7	6:0	1.1
Trichloroethylene	7.0	0.2	0.5	6.0	0.2	2.7	6.0	0.1	0.2	1.1	1.6	6.0
Tetrachloroethene	83.0	1.1	2.7	2.7	6.1	18.2	22.8	0.2	0.3	6.2	8.7	5.3

TABLE 3-1
Johnson & Hoffman Manufacturing Corp.
Carle Place, NY
Soil Gas Survey
Results in (ug/1 air)

10/24/00 10/24/00 1 7.0 8.0 WLG WLG 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Sample ID	Gas-16.5	Gas-J1	Gas-J2	Gas-J3	Gas-J4	Gas-J5	Gas-J5(dup)	Gas-J6.5	Gas-K1	Gas-K1(dup)	Gas-K2	Gas-K4
Code         42.0         37.0         38.0         9.0         19.0         7.0         8.0         43.0         32.0           Initials         WLG         <	Sampling Date	10/25/00	10/26/00	10/26/00	10/24/00	11/1/00	10/24/00	10/24/00		10/26/00	10/26/00	10/25/00	11/1/00
wLG         WLG <th>Analysis Code</th> <th>42.0</th> <th>37.0</th> <th>38.0</th> <th>0.6</th> <th>19.0</th> <th>7.0</th> <th>8.0</th> <th></th> <th>32.0</th> <th>33.0</th> <th>22.0</th> <th>18.0</th>	Analysis Code	42.0	37.0	38.0	0.6	19.0	7.0	8.0		32.0	33.0	22.0	18.0
0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.1         0.0           0.0         0.0         0.1         1.4         0.0           0.1         0.6         0.7         3.2         0.2           1.4         8.6         10.6         25.5         9.9	Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG		WLG	WLG	WLG	WLG
0.0         0.0         0.0         0.1         0.0           0.0         0.0         0.1         1.4         0.0           0.1         0.6         0.7         3.2         0.2           1.4         8.6         10.6         25.5         9.9	1,1 Dichlorethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0:0
0.0         0.0         0.1         1.4         0.0           0.1         0.6         0.7         3.2         0.2           1.4         8.6         10.6         25.5         9.9	t-1, 2-Dichloroethene	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.1 0.6 0.7 3.2 0.2 1.4 8.6 10.6 25.5 9.9	c-1, 2-Dichloroethene	1.7	0.0	0:0	0.0	0.0	0.0	0.1	1.4	0.0	0.0	0.0	0.0
1.4 8.6 10.6 25.5	Trichloroethylene	2.7	0.2	0.2	0.1	0.1	9.0	2.0	3.2	0.2	0.2	0.2	0.1
	Tetrachloroethene	14.5	7.1	8.0	2.0	1.4	9.8	10.6	25.5	6.6	7.6	0.7	2.6

Sample ID	Gas-K5	Gas-K6.5	Gas-L1	Gas-L2	Gas-L3	Gas-L4	Gas-L5	Gas-L6.5	Gas-M1	Gas-M2	Gas-M3	Gas-M4
Sampling Date	10/25/00	10/25/00	10/26/00	10/26/00	11/1/00	10/25/00	11/1/00	10/25/00	10/26/00	10/26/00	10/25/00	11/1/00
Analysis Code	24.0	45.0	31.0	27.0	0.6	29.0	14.0	48.0	25.0	26.0	33.0	10.0
Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG
1,1 Dichlorethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	9.0
t-1, 2-Dichloroethene	0.0	0.0	0.0	8.0	0.3	0:0	0.0	0.0	0.0	0.0	0.2	0.0
c-1, 2-Dichloroethene	0.0	0.5	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.3	3.8	0.2
Trichloroethylene	0.4	1.8	0.2	6:0	8.0	9.0	4.0	1.0	0.5	9.0	2.1	9.0
Tetrachloroethene	11.7	67.3	6.5	311.0	73.3	58.5	10.1	2.97	15.5	42.0	102.7	28.5

Sample ID	Gas-M5	Gas-M6	Gas-M6.5	Gas-N1	Gas-N2	Gas-N3	Gas-N4	Gas-N5	Gas-N6.5	Gas-O1	Gas-O2	Gas-O3
Sampling Date	10/25/00	11/1/00	10/25/00	10/26/00	10/26/00	11/1/00	10/25/00	11/1/00	11/1/00	10/26/00	10/26/00	10/25/00
Analysis Code	31.0	43.0	49.0	30.0	22.0	11.0	34.0	15.0	42.0	21.0	17.0	39.0
Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG
1,1 Dichlorethene	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
t-1, 2-Dichloroethene	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
c-1, 2-Dichloroethene	0.2	0.0	0.0	0.0	0.0	0.1	0.0	1.7	0.0	0.1	0.0	0.7
Trichloroethylene	0.5	1.2	0.1	0.3	0.2	0.4	0.2	0.5	0.4	0.3	0.1	1.8
Tetrachloroethene	28.5	99.4	2.0	15.2	7.8	7.8	6.9	0.6	20.5	6.6	1.8	36.6

TABLE 3-1
Johnson & Hoffman Manufacturing Corp.
Carle Place, NY
Soil Gas Survey
Results in (ug/1 air)

Sampling Date         11/1/00         10/25/00         10/25/00         10/25/00         10/25/00         10/25/00         11/25/00           Analysis Code         13.0         32.0         20.0         38.0         36.0         37.0         9.0           Operator Initials         WLG         WLG         WLG         WLG         WLG         WLG         WLG           1.1 Dichlorethene         0.0         0.0         0.0         0.0         0.0         0.0         0.0           c.1, 2-Dichloroethene         0.0         1.2         0.3         0.1         0.0         0.0           Trichloroethylene         0.3         0.7         1.2         0.3         0.1         0.0         0.0           Tetrachloroethene         5.7         25.0         52.8         8.3         5.2         2.5         1.5	Sample ID	Gas-O4	Gas-O5	Gas-P1	Gas-P3	Gas-P4	Gas-P5	Gas-P6	Gas-P7
13.0         32.0         20.0         38.0         36.0         37.0           WLG         WLG         WLG         WLG         WLG         WLG           ne         0.0         0.0         0.0         0.0         0.0         0.0           ne         0.0         1.2         0.3         0.1         0.0         0.0           ne         0.3         0.7         1.2         0.3         0.1         0.0         0.0           5.7         25.0         52.8         8.3         5.2         2.5         2.5	Sampling Date	11/1/00	10/25/00	10/26/00	10/25/00	10/25/00	10/25/00	11/2/00	11/2/00
WLG         WLG         WLG         WLG         WLG         WLG           10         0.0         0.0         0.0         0.0         0.0         0.0           10         0.0         0.0         0.0         0.0         0.0         0.0         0.0           10         1.2         0.3         0.1         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0	Analysis Code	13.0	32.0	20.0	38.0	36.0	37.0	0.6	10.0
ne 0.0 0.0 0.0 0.0 0.0 ne 0.0 ne 0.0 ne 0.0 0.0 ne 0.0 0.0 ne 0.0	Operator Initials	WLG	WLG	WLG	WLG	WLG	WLG	WLG	WLG
ne         0.0         0.0         0.0         0.0           ne         0.0         1.2         0.3         0.1           ne         0.0         1.2         0.3         0.1           5.7         25.0         52.8         8.3	1,1 Dichlorethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ne         0.0         1.2         0.3         0.1           0.3         0.7         1.2         0.3           5.7         25.0         52.8         8.3	t-1, 2-Dichloroethene	0.0	0.0	0:0	0:0	0.0	0.0	0.0	0.0
0.3         0.7         1.2         0.3           5.7         25.0         52.8         8.3	c-1, 2-Dichloroethene	0.0	1.2	0.3	0.1	0.0	0.0	0.0	0.0
25.0 52.8 8.3	Trichloroethylene	0.3	0.7	1.2	0.3	0.2	0.1	0.1	0.2
	Tetrachloroethene	2.7	25.0	52.8	8.3	5.2	2.5	1.5	1.1

## TAV 3-2 Johnson & Hoffmarh...anufacturing Corp. Carle Place, NY Soil Sample Results (Field GC)

Sampling Date         NYSDEC         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00	Sample ID		SB-7(0-1)	SB-7(1-2)	SB-7(2-3)	SB-7(3-4)	SB-7(4-5)	SB-7(5-6)	SB-7(6-7)	SB-7(7-8)	SB-8(0-2)	SB-8(0-2dup)	SB-8(2-4)
Oode         NYSDEC         17         18         20         21         22         23         24         19         25         32         32           Date         RSCO         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/0	Sampling Date		11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
RSCO         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00 <th< th=""><th>Analysis Code</th><th>NYSDEC</th><th>17</th><th>18</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>19</th><th>25</th><th>32</th><th>26</th></th<>	Analysis Code	NYSDEC	17	18	20	21	22	23	24	19	25	32	26
ne         JMM	Analysis Date	RSCO	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
400         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <th>Operator Initials</th> <th></th> <th>JMM</th>	Operator Initials		JMM	JMM									
ne         300         0.0         1.4         1.6         2.8         1.6         2.2         2.0         2.3         0.5         2.5           ne         250         0.0         14.2         78.5         150.3         80.6         115.1         71.1         1.4         0.6         0.0           700         0.0         0.6         0.8         0.4         174.7         3.2         6.2         0.4         2.3         0.6           1400         0.0         2.9         1.9         1.3         0.8         24.4         15.7         3.2         119.8         28.2	1,1 Dichlorethene	400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ne         250         0.0         14.2         78.5         150.3         80.6         115.1         71.1         1.4         0.6         0.0           700         0.0         0.6         0.8         0.4         174.7         3.2         6.2         0.4         2.3         0.6           1400         0.0         0.6         0.8         0.4         174.7         3.2         6.2         0.4         2.3         0.6	t-1, 2-Dichloroethene	300	0.0	1.4	1.6	2.8	1.6	2.2	2.0	2.3	0.5	2.5	0.1
700         0.0         0.6         0.8         0.4         174.7         3.2         6.2         0.4         2.3         0.6           1400         0.0         2.9         1.9         1.3         0.8         24.4         15.7         3.2         119.8         28.2	c-1, 2-Dichloroethene	250	0.0	14.2	78.5	150.3	9.08	115.1	71.1	1.4	9.0	0.0	10.1
1400   0.0   2.9   1.9   1.3   0.8   24.4   15.7   3.2   119.8   28.2	Trichloroethylene	200	0.0	9.0	0.8	0.4	174.7	3.2	6.2	0.4	2.3	9.0	6.4
	Tetrachloroethene	1400	0.0	2.9	1.9	1.3	8.0	24.4	15.7	3.2	119.8	28.2	8.96

NYSDEC   26   29   30   31   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11/02/00   11	ample ID		SB-8(2-4)	SB-8(4-5)	SB-8(5-6)	SB-8(e-7)	SB-8(7-8)	SB-9(0-1)	SB-9(1-2)	SB-9(2-4)	SB-9(4-5)	SB-9(2-6)	SB-9(6-7)
ode         NYSDEC         26         26         29         30         31           Pate         RSCO         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00	ling Date		11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
RSCO         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/00         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         11/02/02/02         <	ysis Code	NYSDEC	26	26	29	30	31	22	37	39	41	42	43
400         0.0         2.6         0.0         0.0         0.0         0.0           ine         300         0.1         8.5         2.6         2.6         0.3           ine         250         10.1         695(10)         350(10)         1.7	ysis Date	RSCO	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/05/00	11/02/00	11/02/00	11/02/00
ne 300 0.0 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	ator Initials		JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM
ine 300 0.1 8.5 2.6 0.3 0.3 ene 250 10.1 6954 3791 1.7	ichlorethene	400	0.0	2.6	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0
ene 250 10.1 695.1 17.8 1.7	-Dichloroethene	300	0.1	8.5	2.6	2.6	6.0	0.3	1.5	8.0	0.1	1.1	1.5
	-Dichloroethene	250	10.1	(6954)	**************************************	212.8	1.7	0.0	0.0	0.0	84.6	0.0	0.0
6.4 74.6 94.3 38.6 1.1	loroethylene	700	6.4	74.6	94.3	38.6	1.1	2.3	2.0	9.0	2.3	0.0	1.3
Tetrachloroethene         1400         96.8         364.1         749.2         190.3         15.4         200.200.200.200.200.200.200.200.200.200	chloroethene	1400	8.96	364.1	749.2	190.3	15.4	2682.3	1185.4	BE FIGERIA	#12678.3C	171.6	918.5

Sample ID		SB-9(2-8)	(dnp8-2)6-8S	SB-10(0-2)	SB-10(2-3)	SB-10(3-4)	SB-10(4-5)	SB-10(5-6)	SB-11(0-1)	SB-11(1-2)	SB-11(2-3)	SB-11(3-4)
Sampling Date		11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
Analysis Code	NYSDEC	38	46	47	48	20	15	52	65	09	61	62
Analysis Date	RSCO	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
Operator Initials		JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM
1,1 Dichlorethene	400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
t-1, 2-Dichloroethene	300	0.0	1.6	0.3	0.0	0.0	0.0	8.0	5.7	12.3	2.4	1.9
c-1, 2-Dichloroethene	250	0.0	0.0	26.2	8.1	21.7	301.9	64.3	7:1 332 T	238.3	247.6	171.9
Trichloroethylene	700	0.0	0.0	27.9	8.8	62.5	1068.8	41.9	62.3	31.3	3.4	17.1
Tetrachloroethene	1400	817.9	908.6	2408.8	****1536.0 ***	- 7393 L	63755.6	2157.2	22426	371.5	216.1	396.3

Results reported in ug/kg Shaded cells indicate NYSDEC RSCO exceedence.

### Johnson & Hoffman Lanufacturing Corp. Carle Place, NY Soil Sample Results (Field GC)

Sample ID		SB-11(4-6)	SB-12(0-1)	SB-12(1-2)	SB-12(4-6)	SB-12(6-8)	SB-13(0-1)	SB-13(1-2)	SB-13(2-4)	SB-13(4-5)	SB-13(5-6)	SB-13(6-8)
Sampling Date		11/02/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00
Analysis Code	NYSDEC	63	10	11	12	13	15	16	22	23	24	19
Analysis Date	RSCO	11/02/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00
Operator Initials		JMM	JMM	JMM	JMM							
1,1 Dichlorethene	400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.8	56.5	48.0	51.7
t-1, 2-Dichloroethene	300	0.0	0.0	0.0	0.0	0.5	0.0	1.0	52.6	14.3	17.8	19.4
c-1, 2-Dichloroethene	250	1.5	0:0	0.0	0.0	0.0	11.0	50.9	407614B	Sep. 1609.7254	< 22751.0Ft	
Trichloroethylene	200	9.0	1.1	0.5	9.0	8.0	16.9	112.5	- 12433 IBE	10.20.20 See	34,000,46	
Tetrachloroethene	1400	14.2	1.8	5.8	56.2	3.6	1846.0	7002.9	94 88223 DE	827.59	6499,709	- X 0 X C.

Sample ID		SB-13(6-8)DL	SB-13(12-14)	SB-14(0-1)	SB-14(1-2)	SB-14(2-4)	SB-14(2-4dup)	SB-14(4-6)	SB-14(6-8)
Sampling Date		11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00
Analysis Code	NYSDEC	20	25	30	31	32	35	34	33
Analysis Date	RSCO	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00
Operator Initials		JMM	JMM	JMM	JMM	JMM	JMM	JMM	JMM
1,1 Dichlorethene	400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
t-1, 2-Dichloroethene	300	0.0	0:0	0.1	9.0	1.1	1.2	3.9	0.7
c-1, 2-Dichloroethene	250	.40.8.5 p.	2.2	0.0	1.1	16.0	26.0	87.4	12.6
Trichloroethylene	200	** 3577.6 **	1.4	0.4	1.2	25.8	36.7	48.8	2.8
Tetrachloroethene	1400	70626.2	62.1	3.4	12.2	231.8	283.3	672.1	41.2

Results reported in ug/kg Shaded cells indicate NYSDEC RSCO exceedence.

TAP -3
Johnson & Hoffman ....uufacturing Corp.
Carle Place, NY
Soil Analytical Results (State-Certified Lab)

Type	TAGM	Soil	Soil	Soil	Soil	Duplicate	Soil	Soil	Soil
Date Collected Sample ID	NYSDEC RSCO	12/19/2001 SB-15 (0-2)	12/19/2001 SB-15 (4-6')	12/19/2001 SB-15 (8-10')	12/19/2001 <b>SB-16 (0-2')</b>	12/19/2001 SB-16 (0-2')	12/19/2001 SB-16 (4-6')	12/19/2001 SB-16 (8-10')	12/19/2001 SB-17 (0-2)
Chloromethane	NS	N 9	5 U	5 Ü	5500 111	5600 111	511	5 11	11.5
Vinyl chloride	SN	0.9	5 U	5 U	5500 U	5600 U	5 U	5 0	2.0
Bromomethane	200	6 UJ	5 UJ	5 UJ	5500 UJ	5600 UJ	5 UJ	5 01	2 11
Chloroethane	SN	n 9	5 U	5 U	5500 U	2600 U	50,	50,	5 U.
1,1-Dichloroethene	NS	0 9	5 U	5 U	2200 U	2600 U	5 U	5 U	5 U
Carbon disulfide		0.9	5 U	5 U	5500 UJ	5600 UJ	5 U	5 U	5 U
Acetone	200	11 UJ	12 UJ	16 UJ	14000 UJ	14000 UJ	22 J	16 J	13 J
Methylene chloride	400	13 UJ	s uj	5 UJ	5500 UJ	2600 UJ	5 UJ	5 UJ	5 UJ
1,1-Dichloroethane	200	Ω9	5 U	5 U	2500 U	2600 U	5 U	5 U	5 U
2-Butanone (MEK)	SN	11 UJ	10 UJ	10 UJ	5500 UJ	5600 UJ	10 UJ	10 UJ	11 UJ
Chloroform	300	Ω9	5 U	5 U	2500 U	D 0095	5 U	5 U	5 U
1,1,1-Trichloroethane	800	N 9	5 U	5 U	2500 U	2600 U	5 U	5 U	5 U
Carbon tetrachloride	009	Ω9	5 U	5 U	5500 U	2600 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	2501	Ω9	5 U	5 U	5500 U	2600 U	5 U	5 U	5 U
Benzene	09	2 J	5 U	5 U	2500 U	2600 U	5 U	5 U	5 U
1,2-Dichloroethane	100	0.9	5 U	5 U	2500 U	2600 U	5 U	5 U	5 U
Trichloroethene	200	0 9	5 U	5 U	2500 U	2600 U	5 U	5 U	5 U
1,2-Dichloropropane	SN	Ω9	2 U	2 U	2200 U	2600 U	5 U	5 U	5 U
Bromodichloromethane	NS	Ω9	5 U	2 U	2200 U	2600 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	NS	Ω9	5 U	5 U	5500 UJ	2600 UJ	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)	NS	11 U	10 U	10 U	2200 U	2600 U	10 U	10 U	11 U
Toluene	1,500	5 J	5 U	5 U	2500 U	2600 U	1.5	5 U	0.6 J
trans-1,3-Dichloropropene	300	Ω9	2 U	5 U	5500 U	2600 U	5 U	5 U	5 U
1,1,2-Trichloroethane	NS	Ω9	5 U	5 U	2500 U	2600 U	5 U	5 U	5 U
Tetrachloroethene	1400	14	1.]	2 C	11000011	130000 ]	20 J	5 UJ	5 UJ
2-Hexanone		11 UJ	10 UJ	10 UJ	5500 UJ	5600 UJ	10 UJ	10 UJ	11 UJ
Dibromochloromethane		6 UJ	s uj	5 UJ	2500 U	2600 U	5 U	5 U	5 U
Chlorobenzene	1700	Ω9	5 U	2 U	2200 U	2600 U	5 U	5 U	5 U
Ethylbenzene	5500	2 J	5 U	2 U	2200 U	2600 U	0.6 J	5 U	2 J
Styrene	SN	Ω9	5 U	5 U	2200 U	2600 U	5 U	5 U	5 U
Bromoform	NS	Ω9	5 U	5 U	2200 U	2600 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	NS	Ω9	5.0	5 U	5500 U	2600 U	5 U	5 U	5 U
Xylenes (total)	1200	7	5 U	5 U	2500 U	2600 U	5 J	5 U	1 J

Bold Face indicates constituent detection
Shaded cells indicate detections above NYSDEC Recommended Soil Cleanup Criteria
Results in ug/kg
1 - Limit is for cis-1,2-dichloroethene

Johnson & Hoffmark ...ufacturing Corp. Carle Place, NY Soil Analytical Results (State-Certified Lab)

Type Date Collected Sample ID	TAGM NYSDEC RSCO	Soil 12/19/2001 SB-17 (4-6')	Soil 12/19/2001 <b>SB-17 (8-10')</b>	Soil 12/19/2001 <b>SB-18 (0-2')</b>	Soil 12/19/2001 <b>SB-18 (4-6')</b>	Soil 12/19/2001 <b>SB-18 (8-10')</b>	Soil 12/19/2001 <b>SB-19 (0-2</b> )	Soil 12/19/2001 SB-19 (4-6')	Soil 12/19/2001 <b>SB-19 (8-10')</b>
Chloromethane	NS	5 U	115	11 5	11 5	11 2	11.3	11.3	
Vinyl chloride	SN	5 U	50	2.0	2 5	2 5	) L	0 <b>L</b>	. r
Bromomethane	200	5 UJ	5 UJ	5 UI	10.5	5 UI	1112	0 10	
Chloroethane	SN	5 U	5 U,	5 U.	5 U.	5 U	5 0	5.0	) E
1,1-Dichloroethene	SN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	200	7.3	14 ]	32 J	17 J	14 ]	18 J	11.]	11.]
Methylene chloride	400	5 UJ	s uj	5 UJ	s uj	5 UJ	s uj	5 UJ	5 UJ
1,1-Dichloroethane	200	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U,
2-Butanone (MEK)	NS	10 UJ	10 UJ	11 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	300	2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	800	2 O	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	009	5 U	5 U	5 U	5 U	5 U	s uj	5 U	5 U
1,2-Dichloroethene (total)	2501	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	200	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	NS	2 N	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	SN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)	NS	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Toluene	1,500	2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	300	S U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	SN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1400	7.3	5 U	15	5 U	5 U	4.	5 U	5 U
2-Hexanone		10 UJ	10 UJ	11 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dibromochloromethane		2 U	2 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	1700	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5500	0.9 J	5 U	1.]	5 U	5 U	5 U	5 U	5 U
Styrene	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	SN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	SN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	1200	5	2 J	9	5 U	5 U	5 U	5 U	5 U
Rold Eron indicator conceitment detection									

Bold Face indicates constituent detection Shaded cells indicate detections above NYSDEC Recomme Results in ug/kg 1 - Limit is for cis-1,2-dichloroethene

TAB 3
Johnson & Hoffman A. "utfacturing Corp.
Carle Place, NY
Soil Analytical Results (State-Certified Lab)

Tvpe	TAGM	Soil	Soil						
Date Collected Sample ID	NYSDEC RSCO	12/20/2001 SB-20 (0-2')	12/20/2001 SB-20 (4-6')	12/20/2001 SB-20 (8-10)	12/20/2001 SB-21 (0-2')	12/20/2001 SB-21 (4-6')	12/20/2001 SB-21 (6-8')	12/21/2001 SB-22 (0-2')	12/21/2001 SB-22 (4-6)
Chloromethane	NS	27 U	5.0	5 U	5 U	5.0	5 U	5 U	5 U
Vinyl chloride	SN	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	200	27 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Chloroethane	NS	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	NS	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide		27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	200	62 }	12 J	10 J	17 J	10 UJ	10 UJ	19 J	7 J
Methylene chloride	400	27 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	s uj	5 UJ
1,1-Dichloroethane	200	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	SN	54 UJ	10 UJ	10 UJ	11 UJ	10 UJ	10 UJ	11 UJ	10 UJ
Chloroform	300	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	800	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	009	27 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
1,2-Dichloroethene (total)	2501	7.3	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	09	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	100	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	200	10 J	5 U	5 U	5 U	5 U	5 U	5.0	5 U
1,2-Dichloropropane	SN	27 U	5 U	5 U	5 U	5 U	5 U	5.0	5 U
Bromodichloromethane	SN	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	SN	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)	NS	54 U	10 U	10 U	11 U	10 U	10 U	11 U	10 U
Toluene	1,500	27 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U
trans-1,3-Dichloropropene	300	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichtoroethane	SN	27 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U
Tetrachloroethene	1400	380	5 U	5 U	2 J	5 U	5 U	11	5 U
2-Hexanone		54 UJ	10 UJ	10 UJ	11 UJ	10 UJ	10 UJ	11 UJ	10 UJ
Dibromochloromethane		27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	1700	27 U	5 U	5 U	5 U	5 U	5 U	5.0	5 U
Ethylbenzene	2200	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	SN	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	NS	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachioroethane	SN	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	1200	27 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Bold Face indicates constituent detection Shaded cells indicate detections above NYSDEC Recommen Results in ug/kg 1 - Limit is for cis-1,2-dichloroethene

TAB · 3
Johnson & Hoffman N..., utfacturing Corp.
Carle Place, NY
Soil Analytical Results (State-Certified Lab)

NSCO	Type	TAGM	Soil	Soil	Duplicate	Soil	Soil	Soil	Soil	Soil
5 U         6 U         6 U         6 U         5 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         5 U         57 U           5 U         6 U         6 U         5 U         5 U         5 U           5 U         6 U         6 U         5 U         5 U         5 U	Sample ID	RSCO	12/ 21/ 2001 SB-22 (6-8')	12/21/2001 SB-23 (0-2')	12/21/2001 SB-23 (0-2) (DUP122111)	12/21/2001 SB-23 (4-6')	12/21/2001 SB-23 (6-8')	08/16/2002 SB-24 (1-2')	08/16/2002 SB-24 (10-11')	08/16/2002 SB-25 (1-3')
5 U         6 U         6 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U <th>Chloromethane</th> <th>SN</th> <th>5 UJ</th> <th>e uj</th> <th>e UJ</th> <th>5 UJ</th> <th>5 UI</th> <th>5.7 U</th> <th>5.3 U</th> <th>5.5 U</th>	Chloromethane	SN	5 UJ	e uj	e UJ	5 UJ	5 UI	5.7 U	5.3 U	5.5 U
5 U         6 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U <th>Vinyl chloride</th> <th>NS</th> <th>5 U</th> <th>Ω9</th> <th>N 9</th> <th>5 U</th> <th>5 U</th> <th>5.7 U</th> <th>5.3 U</th> <th>5.5 U</th>	Vinyl chloride	NS	5 U	Ω9	N 9	5 U	5 U	5.7 U	5.3 U	5.5 U
5 U         6 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U <th>Bromomethane</th> <th>200</th> <th>5 U</th> <th>Ω9</th> <th>Ω9</th> <th>5 U</th> <th>5 U</th> <th>5.7 U</th> <th>5.3 U</th> <th>5.5 U</th>	Bromomethane	200	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5 U         6 U         6 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         5 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U         6 U <th>Chloroethane</th> <th>NS</th> <th>5 U</th> <th>Ω9</th> <th>Ω9</th> <th>5 U</th> <th>5 U</th> <th>5.7 U</th> <th>5.3 U</th> <th>5.5 U</th>	Chloroethane	NS	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         6U         5U         5U         5T           5U         6U         8U         5U         5D         5T           5U         6U         8U         5U         5D         5T           5U         6U         6U         8U         5U         5T           5U         6U         6U         5U         5U         <	1,1-Dichloroethene	NS	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
34 J         51 J         37 J         9 J         10 J         11 U           5 U         6 U         8 U         5 U         57 U         57 U           6 J         11 U         11 U         10 U         10 U         11 U         11 U           5 U         6 U         6 U         5 U         57 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U         57 U           5 U         6 U         6 U         5 U         50 U         57 U         57 U         57 U           5 U         6 U         6 U         5 U         5 U         57 U         57 U         57 U           5 U         6 U         6 U         5 U         5 U         57 U         57 U         57 U           5 U         6 U         6 U         5 U         5 U         57 U         57 U         57 U           5 U         6 U         6 U         6 U         5 U         57 U	Carbon disulfide	,	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5 UJ         6 UJ         8 UJ         5 UJ <th< th=""><th>Acetone</th><th>200</th><th>34 ]</th><th>51 J</th><th>37 J</th><th>9 J</th><th>10 J</th><th>11 U</th><th>11 U</th><th>11 U</th></th<>	Acetone	200	34 ]	51 J	37 J	9 J	10 J	11 U	11 U	11 U
5 U         6 U         6 U         5 U         5 U           6 J         11 JJ         11 JJ         11 JJ         11 JJ           5 U         6 U         6 U         5 U         5 T           5 U         6 U         6 U         5 U         5 T           5 U         6 U         6 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U         5 T           5 U         6 U         6 U         5 U         5 U <th>Methylene chloride</th> <th>400</th> <th>5 UJ</th> <th>e UJ</th> <th>8 UJ</th> <th>5 UJ</th> <th>5 UJ</th> <th>5.7 U</th> <th>5.3 U</th> <th>5.5 U</th>	Methylene chloride	400	5 UJ	e UJ	8 UJ	5 UJ	5 UJ	5.7 U	5.3 U	5.5 U
61         11 UJ         11 UJ         10 UJ         10 UJ         11 UJ           5U         6U         6U         5U         5U         57 U           5U         6U         6U         5U         57 U         57 U           5U         6U         6U         5U         57 U         57 U           5U         6U         6U         5U         50 U         57 U           5U         6U         6U         5U         50 U         57 U           5U         6U         6U         5U         5U         57 U           5U         6U	1,1-Dichloroethane	200	5 U	0.9	n 9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         6U         5U         5U         57U           5U         6U         5U         5U         57U           5U         6U         6U         5U         5U         57U           5U         6U         6U         5U         5U         11U           5U         6U         6U         5U         5U         11U           5U         6U         6U         5U         5T         11U           5U         6U         6U         5U         5T         5TU           5U         6U         6U         5U         5T         5TU           5U         6U         6U         5U         5T         5TU           5U         6U         6U         5U         5T         5T           5U         6U         5U         5U         5T           5U         6U         6U         5U         5U         5T           6U         6U         5U         5U         5T         5T           6U         6U         5U         5U         5T         5T           6U         6U         5U         5U         5T         5T	2-Butanone (MEK)	SN	6 J	11 UJ	11 UJ	10 UJ	10 UJ	11 U	11 U	11 U
5U         6U         6U         5U         57U           5U         6U         5U         5U         57U           5U         6U         6U         5U         57U           5U         6U         6U         5U         57U           5U         6U         6U         5U         5U           5U         6U         6U         5U         5T           5U         11         00         5U         5T           5U         6U         6U         5U         5U	Chloroform	300	5 U	0.9	N 9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         6U         5U         5U         5U         5U         5U         323           5U         6U         6U         5U         5U         11U           5U         6U         6U         5U         5U         11U           5U         6U         6U         5U         5U         5TU           5U         6U         6U         5U         5U         5TU           5U         6U         6U         5U         5U         5TU           10U         11U         11U         10U         10U         5TU         5TU           5U         6U         6U         5U         5U         5TU         5TU           5U	1,1,1-Trichloroethane	800	5 U	Ω9	N 9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         6U         5U         5U         323           5U         6U         6U         5U         5U         11U           5U         6U         6U         5U         5U         11U           5U         6U         6U         5U         5U         57U           5U         6U         6U         5U         5U         57U           5U         6U         6U         5U         57U         57U           5U         6U         6U         5U         50U         57U           5U         6U         6U         5U         5U         57U           5U         6U         6U         5U <t< th=""><th>Carbon tetrachloride</th><th>009</th><th>5 U</th><th>Ω9</th><th>Ω9</th><th>5 U</th><th>5 U</th><th>5.7 U</th><th>5.3 U</th><th>5.5 U</th></t<>	Carbon tetrachloride	009	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         6U         6U         5U         5U         11U           5U         6U         6U         5U         5U         57U           10UJ         11UJ         10UJ         10UJ         57U         57U           5U         6U         6U         5U         5U         57U           5U         6U         6U         5U         5T         57U           5U         6U         6U         5U         5T         5T           6U         6U         5U         5U         5T         5T           5U         6U         6U	1,2-Dichloroethene (total)	2501	5 U	Ω9	Ω9	5 U	5 U	32.3	5.3 U	5.5 U
5U         6U         6U         5U         5U         5U         5U           5U         6U         6U         5U         5U         5T         129           5U         6U         6U         5U         5U         5TU         5TU           5U         6U         6U         5U         5U         5TU         5TU           10U         11U         11U         10U         10U         5TU         5TU           5U         6U         6U         5U         5U         5TU         5TU           5U         6U         6U         6U         5U         5U         5TU           5U         6U         6U         6U         5U	Benzene	09	5 U	Ω9	Ω9	5 U	5 U	1.1 U	1.1 U	1.1 U
5U         6U         6U         5U         5U         129           5U         6U         6U         5U         5U         57U           5U         6U         6U         5U         5TU         5TU           10U         11U         11U         10U         5U         5TU         5TU           5U         6U         6U         5U         5U         5TU         5TU           5U         6U         6U         5U         5TU         5TU           6U         6U         5U         5U         5TU         5TU           5U         6U         6U         5U         5U         5TU           5U	1,2-Dichloroethane	100	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         6U         6U         5U         5U           5U         6U         5U         5U         5U           5U         6U         6U         5U         5U         5TU           5U         11         11 U         10 U         5U         5T U         5	Trichloroethene	200	5 U	Ω9	Ω9	5 U	5 U	129	3 J	5.5 U
5U         6U         6U         5U         5U         5U         5U           5U         6U         6U         5U         5U         5TU         5TU           10UJ         11UJ         11UJ         10UJ         10UJ         5TU         5TU           5U         6U         6U         5U         5U         5TU           5U         6U         6U         5U         5TU         5TU	1,2-Dichloropropane	SN	2 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         6U         6U         5U         5T           10UJ         11UJ         11UJ         10UJ         5T           5U         11         0.81         5U         5T           5U         6U         6U         5U         5T           5U         6U         6U         5U         5T           10UJ         11UJ         11UJ         10UJ         5U         5T           5U         6U         6U         5U         5T         5T           5U         6U         6U         5U         5T         5T           5U         6U         6U         5U         5T         5T           5U         6U         5U         5U         5T         5T           5U         6U         6U         5U         5U         5T           5U         6U         6U         5U         5U         5T           5U         6U         6U         5U         5T         5T           5U         6U         6U         5U         5T         5T           5U         6U         6U         5U         5U         5T           5U	Bromodichloromethane	SN	2 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
10 UJ         11 UJ         11 UJ         10 UJ         10 UJ         57 U           5 U         6 U         6 U         5 U         57 U           5 U         6 U         6 U         5 U         57 U           5 U         2 J         1 J         5 U         57 U           5 U         2 J         1 J         5 U         57 U           10 UJ         11 UJ         11 UJ         10 UJ         50 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U           5 U         6 U         5 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         57 U         57 U         57 U           5 U         6 U         5 U         5 U         57 U         57 U         57 U           5 U         6 U         6 U         5 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         5 U         57 U         57 U           5 U         6 U         6 U         5 U         5 U	cis-1,3-Dichloropropene	SN	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         1J         0.8J         5U         5U         11U           5U         6U         6U         5U         5U         57U           5U         6U         6U         5U         5T         5TU           5U         2J         1J         5U         5D         5TU           10UJ         11UJ         11UJ         10UJ         5U         5TU         5TU           5U         6U         6U         5U         5U         5TU         5TU           5U         7U         7U         7U         7U         7U         7U         7U         7U <th>4-Methyl-2-pentanone (MIBK)</th> <th>NS</th> <th>10 UJ</th> <th>11 UJ</th> <th>11 UJ</th> <th>10 UJ</th> <th>10 UJ</th> <th>5.7 U</th> <th>5.3 U</th> <th>5.5 U</th>	4-Methyl-2-pentanone (MIBK)	NS	10 UJ	11 UJ	11 UJ	10 UJ	10 UJ	5.7 U	5.3 U	5.5 U
5U         6U         6U         5U         5U         5TU           5U         6U         6U         5U         5TU         5TU           5U         2J         1J         5U         5U         5TU           10UJ         11UJ         10UJ         10UJ         5TU           5U         6U         5U         5U         5TU           5U         5U         5U         5TU         5TU           5U         5U	Toluene	1,500	5 U	1.3	0.8 J	5.0	5 U	1.1 U	1.1 U	1.1 U
5U         6U         6U         5U         5U           5U         2J         1J         5U         5U           10UJ         11UJ         11UJ         10UJ         5U         5U           5U         6U         6U         5U         5T         5T           5U         6U         5U         5U         5T         5T           5U         6U         5U         5U         5T         5T           5U         6U         6U         5U         5U         5T           5U         6U         6U         5U         5U         5T           5U         5U         5U         5U         5T           5U         5U         5U         5U         5T	trans-1,3-Dichloropropene	300	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U         2J         1J         5U         20000           10UJ         11UJ         11UJ         10UJ         10UJ         57U           5U         6U         6U         5U         57U           5U         6U         5U         5T         57U           5U         6U         5U         5U         57U           5U         6U         5U         5U         57U           5U         6U         6U         5U         5T           5U         6U         6U         5U         5T           5U         5U         5U         5T	1,1,2-Trichloroethane	SN	2 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
10 Uj     11 Uj     11 Uj     10 Uj     10 Uj     57 U       5 U     6 U     6 U     5 U     5 T     5 T       5 U     6 U     5 U     5 U     5 T     5 T       5 U     6 U     5 U     5 U     5 T     1 J       5 U     6 U     5 U     5 U     5 T     5 T       5 U     6 U     6 U     5 U     5 U     5 T       5 U     6 U     6 U     5 U     5 U     5 T       5 U     2 J     1 J     5 U     5 U     2 3 U	Tetrachloroethene	1400	5 U	2 J	1 J	5 U	5 U	20900	149	14.3
5U       6U       6U       5U       5U       5TU         5U       6U       6U       5U       5TU       5TU         5U       6U       5U       5U       5TU       5TU         5U       6U       5U       5U       5TU       5TU         5U       6U       5U       5U       5TU       5TU         5U       2I       1I       5U       5U       23U	2-Hexanone		10 UJ	11 UJ	11 UJ	10 UJ	10 UJ	5.7 U	5.3 U	5.5 U
5U     6U     5U     5U     5TU       5U     0.5J     6UJ     5U     5U     1.1U       5U     6U     5U     5U     5TU       5U     6U     5U     5U     5TU       5U     6U     5U     5U     5TU       5U     2J     1J     5U     5U     23U	Dibromochloromethane		5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U     0.5 J     6UJ     5U     5U     1.1 U       5U     6U     5U     5U     57 U       5U     6U     5U     5U     57 U       5U     6U     5U     5U     57 U       5U     5U     5U     57 U       5U     5U     5U     23 U	Chlorobenzene	1700	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U     6U     6U     5U     5V     57U       5U     6U     5U     5U     57U       5U     6U     5U     5U     57U       5U     5U     5U     5T       5U     5U     5U     53U       5U     5U     5U     23U	Ethylbenzene	2200	5 U	0.5 J	6 UJ	5 U	5 U	1.1 U	1.1 U	1.1 U
5U 6U 6U 5U 5U 57U 5U 6U 6U 5U 5U 57U 5U 2J 1J 5U 5U 23U	Styrene	SN	2 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U 6U 6U 5U 5U 5.7U 5U 2J 1J 5U 5U 2.3U	Bromoform	NS	5 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
5U 2J 1J 5U 5U 23U	1,1,2,2-Tetrachloroethane	NS	2 U	Ω9	Ω9	5 U	5 U	5.7 U	5.3 U	5.5 U
Bold Face indicates constituent detection Shaded cells indicate detections above NYSDEC Recomme Results in ug/kg 1 - I imit is for rie.1 2-dirhlorosthana	Xylenes (total)	1200	5 U	2 J	1.5	5 U	5 U	2.3 U	2.1 U	2.2 U
Shaded cells indicate detections above NYSDEC Recomme! Results in ug/kg	Bold Face indicates constituent detection									
Results in ug/kg 1 - Limit is for ris.1 2-dichloroshana	Shaded cells indicate detections above N	YSDEC Recomme								
1 - Limit is for cis. 12. Aich horosthana	Results in ug/kg									
י מינוני בי ניון רד, ז'ך מינוונוני בי ניון רד, ז'ך מינווניוני בי ניון רד, ז'ך מינווני בי ניון רד, ז'ך מיין בי ניון ניון רד, ז'ך מינווני בי ניון רד, ז'ר מינווני בי ניון ניון רד, ז'ר מינווני בי ניון ניון רד, ז'ר מינווני בי ניון ניון ניון רד, ז'ר מינווני בי ניון ניון ניון ניון ניון ניון ניון ניו	<ol> <li>Limit is for cis-1,2-dichloroethene</li> </ol>									

TAF -3
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Carle Place, NY
Soil Analytical Results (State-Certified Lab)

Type	TAGM	Soil	Soil	Soil	Duplicate	Soil	Soil	Soil	Soil
Date Collected Sample ID	NYSDEC RSCO	08/16/2002 SB-25 (5-7')	08/16/2002 SB-26(1-3')	08/16/2002 SB-26(5-7')	08/16/2002 SB-26(5-7') (DUP081602)	08/16/2002 SB-27(1-3')	08/16/2002 SB-27(5-7')	08/16/2002 SB-28(1-3')	08/16/2002 SB-28(5-7')
Chloromethane	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Vinyl chloride	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Bromomethane	200	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Chloroethane	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
1,1-Dichloroethene	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Carbon disulfide		5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Acetone	200	10 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
Methylene chloride	400	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	2.9 U
1,1-Dichloroethane	200	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	2.9 U
2-Butanone (MEK)	SN	10 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
Chloroform	300	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	2.9 U
1,1,1-Trichloroethane	800	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	2.9 U
Carbon tetrachloride	009	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
1,2-Dichloroethene (total)	2501	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Benzene	09	1 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.1 U	1.2 U
1,2-Dichloroethane	100	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	2.9 U
Trichloroethene	200	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	2.9 U
1,2-Dichloropropane	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	2.9 U
Bromodichloromethane	SN	5.5 U	5.5 U	5.3 U	5.5 U	5.7 U	5.4 U	5.5 U	5.9 U
cis-1,3-Dichloropropene	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
4-Methyl-2-pentanone (MIBK)	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Toluene	1,500	1 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.1 U	1.2 U
trans-1,3-Dichloropropene	300	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
1,1,2-Trichloroethane	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	2.9 U
Tetrachloroethene	1400	5.2 U	9.4	5.3 U	1.8	8.6	5.4 U	5.5 U	5.9 U
2-Hexanone		5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Dibromochloromethane		5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Chlorobenzene	1700	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Ethylbenzene	5500	1 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.1 U	1.2 U
Styrene	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Bromoform	SN	5.2 U	5.5 U	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
1,1,2,2-Tetrachloroethane	SN	5.2 U	'n	5.3 U	5.2 U	5.7 U	5.4 U	5.5 U	5.9 U
Xylenes (total)	1200	2.1 U	2.2 U	2.1 U	2.1 U	2.3 U	2.2 U	2.2 U	2.3 U
Bold Face indicates constituent detection									

Bold Face indicates constituent detection Shaded cells indicate detections above NYSDEC Recomme Results in ug/kg 1 - Limit is for cis-1,2-dichloroethene

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Carle Place, NY
Soil Analytical Results (State-Certified Lab)

Ontoomertatione         NS         55 U         57 U         56 U         55 U         51 U           With delicide         NS         55 U         57 U         56 U         55 U         51 U         51 U           Bennomethane         NS         55 U         57 U         56 U         55 U         51 U         51 U           Chlorochtane         NS         55 U         57 U         56 U         55 U         51 U         51 U           Carbon distilide         NS         55 U         57 U         56 U         55 U         51 U           Ambrylane chloride         400         11 U         11 U         11 U         11 U         99 U         10 U           Ambrylane chloride         200         51 U         57 U         56 U         55 U         51 U         51 U           Ambrylane chloride         200         51 U         57 U         56 U         55 U         51 U         51 U           Ambrylane chloride         200         55 U         57 U         56 U         55 U         51 U         51 U           Ambrylane chloride         200         55 U         57 U         56 U         55 U         57 U         50 U         51 U         51 U	Type Date Collected Sample ID	TAGM NYSDEC RSCO	Soil 08/16/2002 <b>SB-29(1-3')</b>	Soil 08/16/2002 SB-29(5-7')	Soil 08/16/2002 <b>SB-30(1-3')</b>	Soil 08/16/2002 <b>SB-30(5-7')</b>	Soil 08/16/2002 <b>SB-31(1-3')</b>	Soil 08/16/2002 <b>SB-31(5-7')</b>
e         NS         52.0         57.0         56.0         55.0         50.0           e         200         55.0         57.0         56.0         55.0         50.0           de         200         55.0         57.0         56.0         55.0         50.0           de         200         55.0         57.0         56.0         55.0         50.0           de         200         11.0         11.0         11.0         11.0         50.0           de         200         55.0         57.0         56.0         55.0         50.0           mane         200         55.0         57.0         56.0         55.0         50.0           edhane         200         55.0         57.0         56.0         55.0         50.0           ene         700         55.0         57.0         56.0         55.0         50.0 <th>Chloromethane</th> <th>SN</th> <th>11.4</th> <th>5711</th> <th>56 11</th> <th>11 22</th> <th>112</th> <th>E 1 11</th>	Chloromethane	SN	11.4	5711	56 11	11 22	112	E 1 11
e         200         55 U         57 U         56 U         55 U         50	Vinyl chloride	SZ	55 U	5.7 U	5.611	55.11	2 5	11.5
NS         55 U         57 U         56 U         55 U         50 U           de         55 U         57 U         56 U         55 U         50 U           de         200         11 U         11 U         11 U         99 U           norde         400         55 U         57 U         56 U         55 U         50 U           hane         200         11 U         11 U         11 U         11 U         99 U           hane         200         55 U         57 U         56 U         55 U         50 U           herhal         600         55 U         57 U         56 U         55 U         50 U           here (total)         25 U         57 U         56 U         55 U         50 U         50 U           here (total)         25 U         57 U         56 U         55 U         50 U         50 U         50 U           here (total)         25 U         57 U         56 U         55 U         50 U         50 U         50 U           here (total)         55 U         57 U         56 U         55 U         50 U         50 U         50 U         50 U           here (total)         55 U         57 U	Bromomethane	200	5.5 U	5.7 U	5.6 U	5.5 U	2 U	5.1 U
hene         NS         55 U         50 U         5	Chloroethane	NS	5.5 U	5.7 U	5.6 U	5.5 U	5 U	5.1 U
de         55 U         57 U         56 U         55 U         5 U           dide         400         51 U         11 U         11 U         11 U         50 U         50 U           hane         400         55 U         57 U         56 U         55 U         50 U         50 U           ABRO         30         55 U         57 U         56 U         55 U         50 U         50 U           ethane         800         55 U         57 U         56 U         55 U         50 U         50 U           bindride         600         51 U         11 U         11 U         11 U         50 U	1,1-Dichloroethene	NS	5.5 U	5.7 U	5.6 U	5.5 U	5 U	5.1 U
oride         200         11 U         11 U         11 U         99 U           hane         400         55 U         57 U         56 U         55 U         50 U           hane         200         55 U         57 U         56 U         55 U         50 U           AEK)         NS         11 U         11 U         11 U         11 U         99 U           AEK)         300         55 U         57 U         56 U         55 U         50 U           berhare         800         55 U         57 U         56 U         55 U         50 U           horide         600         1.1 U         1.1 U         1.1 U         1.1 U         9.9 U           here (total)         55 U         57 U         56 U         55 U         50 U         50 U           here (total)         55 U         57 U         56 U         55 U         50 U         50 U           hane (total)         100         55 U         57 U         56 U         55 U         50 U           hane (total)         100         55 U         57 U         56 U         55 U         50 U           hane (total)         150         57 U         56 U         55 U	Carbon disulfide		5.5 U	5.7 U	5.6 U	5.5 U	5 U	5.1 U
vide         400         55 U         57 U         56 U         55 U         5 U           REK)         NS         11 U         11 U         11 U         11 U         99 U           Alery         NS         11 U         11 U         11 U         11 U         99 U           Alery         60         55 U         57 U         56 U         55 U         50 U           Annel         60         11 U         11 U         11 U         11 U         99 U           Annel         60         11 U         11 U         11 U         11 U         99 U           Annel         60         11 U         11 U         11 U         11 U         99 U           Annel         60         11 U         11 U         11 U         11 U         99 U           Annel         70         55 U         57 U         56 U         55 U         50 U           Annel         70         55 U         57 U         56 U         55 U         50 U           Annel         70         55 U         57 U         56 U         55 U         57 U           Annel         70         55 U         57 U         56 U         55 U         57	Acetone	200	11 U	11 U	11 U	11 U	0.9 U	10 U
hane         200         55 U         57 U         56 U         55 U         50 U           AEK)         NS         11 U         11 U         11 U         11 U         50 U<	Methylene chloride	400	5.5 U	5.7 U	5.6 U	5.5 U	5 U	5.1 U
(EK)         NS         11 U         11 U         11 U         99 U           Aethane         800         55 U         57 U         56 U         55 U         50 U           bethane         600         55 U         57 U         56 U         55 U         50 U           hane (total)         250 I         55 U         57 U         56 U         55 U         50 U           hane (total)         250 I         57 U         56 U         55 U         50 U         50 U           hane (total)         250 I         57 U         56 U         55 U         50 U         50 U           hane (total)         55 U         57 U         56 U         55 U         50 U         50 U           hane (total)         55 U         57 U         56 U         55 U         50 U         50 U           hane (total)         NS         55 U         57 U         56 U         55 U         50 U           hane (total)         NS         55 U         57 U         56 U         55 U         50 U           popular         NS         55 U         57 U         56 U         55 U         50 U           popular         NS         55 U         57 U	1,1-Dichloroethane	200	5.5 U	5.7 U	5.6 U	5.5 U	5 U	5.1 U
sethane         300         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           horide         600         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           thene (total)         250 I         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           thene (total)         250 I         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           thene (total)         60         1.1 U         1.1 U         1.1 U         1.1 U         0.99 U           thane         100         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           thane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           copropere         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           thane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           thane         1.500         1.1 U         1.1 U         1.1 U         5.0 U         5.0 U         5.0 U           sethane         1.700         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           seth	2-Butanone (MEK)	SN	11 U	11 U	11 U	11 U	O 6.6	10 U
bethane         800         55 U         56 U         55 U         50 U         55 U         50 U         <	Chloroform	300	5.5 U	5.7 U	5.6 U	5.5 U	5 U	5.1 U
holoride         600         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U <t< th=""><th>1,1,1-Trichloroethane</th><th>800</th><th>5.5 U</th><th>5.7 U</th><th>2.6 U</th><th>5.5 U</th><th>5 U</th><th>5.1 U</th></t<>	1,1,1-Trichloroethane	800	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
thene (total)         250¹         55 U         56 U         55 U         50 U           thene (total)         60         1.1 U         1.1 U         1.1 U         1.1 U         0.99 U           thane         700         55 U         57 U         56 U         55 U         50 U           opane         NS         55 U         57 U         56 U         55 U         50 U           opane         NS         55 U         57 U         56 U         55 U         50 U           opane         NS         55 U         57 U         56 U         55 U         50 U           opane         NS         55 U         57 U         56 U         55 U         50 U           opathane         NS         55 U         57 U         56 U         55 U         50 U           opethane         NS         55 U         57 U         56 U         55 U         50 U           opethane         1700         55 U         57 U         56 U         55 U         50 U           opethane         1700         55 U         57 U         56 U         55 U         50 U           opethane         1700         55 U         57 U         56 U <t< th=""><th>Carbon tetrachloride</th><th>009</th><th>5.5 U</th><th>5.7 U</th><th>2.6 U</th><th>5.5 U</th><th>5 U</th><th>5.1 U</th></t<>	Carbon tetrachloride	009	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
hane         60         1.1 U         1.1 U         1.1 U         0.99 U           hane         100         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           pe         700         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           opane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           oppropene         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           oppropene         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           dranone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           dranone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           dranone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           dranone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           dranone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           bethe         NS         5.5 U	1,2-Dichloroethene (total)	250 <sup>1</sup>	5.5 U	5.7 U	5.6 U	5.5 U	5 U	5.1 U
thane         100         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           per         700         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           opane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           omethane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           rinone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           rinone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           rinone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           rinone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           rinone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           rinone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           rinone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           rinone (MIBK) <th>Benzene</th> <th>09</th> <th>1.1 U</th> <th>1.1 U</th> <th>1.1 U</th> <th>1.1 U</th> <th>O 66:0</th> <th>1 U</th>	Benzene	09	1.1 U	1.1 U	1.1 U	1.1 U	O 66:0	1 U
re         700         5.5 U         5.7 U         5.6 U         5.5 U         5.0	1,2-Dichloroethane	100	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
Opane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U         5.5 U         5.0 U         5.	Trichloroethene	200	5.5 U	5.7 U	5.6 U	5.5 U	2 U	5.1 U
Omethane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.5 U           Oppropene         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           Intanone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           Intanone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           Intensione         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           Intensione         NS         5.7 U         5.6 U         5.5 U         5.0 U         5.0 U           Intensione	1,2-Dichloropropane	SN	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
ropropene         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U <t< th=""><th>Bromodichloromethane</th><th>SN</th><th>5.5 U</th><th>5.7 U</th><th>2.6 U</th><th>5.5 U</th><th>5.5 U</th><th>5.1 U</th></t<>	Bromodichloromethane	SN	5.5 U	5.7 U	2.6 U	5.5 U	5.5 U	5.1 U
ntanone (MIBK)         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U	cis-1,3-Dichloropropene	NS	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
loropropene         1,500         1,1 U         1,1 U         1,3         1,1 U         0,99 U           loropropene         300         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U         5.0 U           sethane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U         5.0 U           sene         1400         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U         5.0 U           sene         1700         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           sene         550         1.1 U         1.1 U         1.1 U         1.1 U         0.99 U           sene         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           shorthane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           shorthane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           shorthane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U           shorthane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U	4-Methyl-2-pentanone (MIBK)	NS	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
loropropene         300         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U         5.5 U         5.0 U	Toluene	1,500	1.1 U	1.1 U	1.3	1.1 U	O 66'0	1 U
NS         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U         5.	trans-1,3-Dichloropropene	300	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
rene         1400         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U         5	1,1,2-Trichloroethane	SN	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
specification         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U	Tetrachloroethene	1400	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
omethane         5.5 U         5.7 U         5.6 U         5.5 U         5.0 U	2-Hexanone		5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
e 1700 5.5 U 5.7 U 5.6 U 5.5 U 5.0 5 U 5.0 NS 5.5 U 5.7 U 5.6 U 5.5 U 0.99 U 1.1 U 1.1 U 1.1 U 0.99 U 1.1 U 1.1 U 1.1 U 0.99 U 1.1 U	Dibromochloromethane		5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
5500         1.1 U         1.1 U         1.1 U         0.99 U           NS         5.5 U         5.7 U         5.6 U         5.5 U         5 U           NS         5.5 U         5.7 U         5.6 U         5.5 U         5 U           Indroethane         NS         5.5 U         5.7 U         5.6 U         5.5 U         5 U           1200         2.2 U         2.3 U         2.2 U         2.2 U         2 U         2 U	Chiorobenzene	1700	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
NS 5.5 U 5.7 U 5.6 U 5.5 U 5.0 S U 5.0 NS 5.5 U 5.7 U 5.6 U 5.5 U 5.0 S U 5.0 S U 5.0 S U 5.0 S U 5.0	Ethylbenzene	2200	1.1 U	1.1 U	1.1 U	1.1 U	O 66:0	1 U
NS 5.5 U 5.7 U 5.6 U 5.5 U 5.0 FU 5.0	Styrene	SN	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
MS 5.5 U 5.7 U 5.6 U 5.5 U 5.0 5.0 U 2.0 C.2 U 2.3 U 2.2 U 2.2 U 2.0 C.2 U 2.0 C.3 U	Bromoform	NS	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
1200 2.2 U 2.3 U 2.2 U	1,1,2,2-Tetrachloroethane	SN	5.5 U	5.7 U	2.6 U	5.5 U	5 U	5.1 U
	Xylenes (total)	1200	2.2 U	2.3 U	2.2 U	2.2 U	2 U	2.1 U

Bold Face indicates constituent detection Shaded cells indicate detections above NYSDEC Recommer Results in ug/kg 1 - Limit is for cis-1,2-dichloroethene

### **TABLE 3-4**

### Summary of Vertical Delineation Soil Samples in MW-2 Area and Concrete Pad Area J&H Manufacturing Corp. Carle Place, NY

### MW-2 Area

Boring ID	Sample Depth (feet)	PCE (ug/kg)	TCE (ug/kg)	cis-1,2-DCE (ug/kg)
MW-2	45-47	ND	ND	ND
SB-5	12-14	10.1	ND	ND
SB-8	7-8	15.4	1.1	1.7
SB-10	5-6	2,157*	41.9*	110*
SB-11	4-6	14.2	0.6	1.5
SB-13	12-14	62.1*	1.4*	2.2*
RSCO	-	1,400	700	250

<sup>\* =</sup> Highest value of Field GC and State-certified lab results

### Concrete Pad Area

Boring ID	Sample Depth	PCE (100)	TCE	1,2-DCE (total) (ug/kg)
	(feet)	(ug/kg)	(ug/kg)	(ug/kg)
SB-9	7-8	817.9	ND	ND
SB-16	8-10	ND	ND	ND
SB-24	10-11	149	3	ND
RSCO	-	1,400	700	250

8/7/03 J&HTables.xls

### TABLE 3-5a

Ground Water Sampling Results (Nov. 2000) J&H Manufacturing Corp. Carle Place, NY

Sample ID =>	NY TOGS	MW-1	MW-2	MW-3		MW-4	MW-5			
Date Collected =>		11/21/00		11/21/00	)	11/21/00	)	11/21/00	)	11/21/00
VOCs by 624 (ug/l)										
Chloromethane	5	1	U	1	U	1	U	1	U	1 1
Vinyl Chloride	2	1	Ü	1	U	1	Ū	1.	U	1 1
Bromomethane	5	1	U	1	U	1	U	1	U	1 1
Chloroethane	5	1	U	1	U	1	U	1.	U	1 1
Trichlorofluoromethane	5	1	U	1	Ü	1	U	1	U	1 1
1,1-Dichloroethene	5	1	U	1	U	1	Ū	1	U	1 1
Methylene Chloride	5	1	Ū	1	U	1	U	1	U	1 1
trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1 1
1,1-Dichloroethane	5	1	U	1	U	1	Ü	1	U	1 1
cis-1,2-Dichloroethene	5	4.7 - 2	1		6 TH	1	U	1	Ū	5- 67
Chloroform	7	1.	U	1	U	1.	Ü	1	U	1
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1 1
Carbon Tetrachloride	5	1.	Ū	1	U	1.	U	1	U	1 1
1,2-Dichloroethane	1	1	U	1	U	1	Ü	1	U	1 1
Benzene	1	1	U	1	U	1	U	1	U	1 1
1,2-Dichloropropane	5	1	U	1	U	1	U	1	Ū	1 1
Bromodichloromethane	50	1	U	1	U	1	Ü	1	Ü	1 1
cis-1,3-Dichloropropene	5	1	U	1	U	1	U	1	U	1 1
Toluene	5	1	U	1	U	1	U	1	U	1 7
trans-1,3-Dichloropropene	5	1	U	1	Ü	1.	U	1	U	1 1
1,1,2-Trichloroethane	5	1	U	1	U	1	Ū	1	Ü	1 0
Tetrachloroethene	5	190	er sign,	7 84		1	U	1	U	170
Chlorobenzene	5	1	U	1	U	1	U	1	U	1 0
Ethylbenzene	5	1	U	1	U	1	U	1	U	1 1
Bromoform	50	1	U	1	U	1.	U	1	U	1 U
1,1,2,2-Tetrachloroethane	5	1	U	1	U	1	U	1	U	1 U
1,3-Dichlorobenzene	5	1	U	1	U	1	U	1	U	1 U
1,4-Dichlorobenzene	5	1	U	1	Ū	1	U	1	U	1 U
1,2-Dichlorobenzene	5	1	U	1	U	1	U	1	U	1 (
Dichlordifluoromethane	5	1	U	1	U	1	U	1	U	1 (
2,2-Dichloropropane	5	1	U	1	U	1	U	1	U	1 U
Bromochloromethane	5	1	U	1	U	1	U	1	U	1 (
1,1-Dichloropropene	5	1	U	. 1	U	1	U	1	U	1 0
Trichloroethylene	5	# ** 10		. Ebs. 1915	1	1	U	1	U	\$\$ 1 W45 \$
Dibromomethane	5	1	U	1	U	1	U	1	U	1 (
1,3-Dichloropropane	5	1	U	1	U	1.	U	1	U	1 1
Chlorodibromomethane	NS	1	U	1	U	1	U	1	U	1 0
1,2-Dibromoethane	NS	1	U	1	U	1	U	1	U	1 1
1,1,1,2-Tetrachloroethane	5	1	U	1	U	1.	U	1	U	1 1
m + p Xylene	5	2	U	2	U	2	U	2	U	2 T
o Xylene	5	1	U	1	U	1	U	1	U	1 U
Styrene	5	1	U	1	U	1	U	1	U	1 0

### TABLE 3-5a

Ground Water Sampling Results (Nov. 2000) J&H Manufacturing Corp. Carle Place, NY

Sample ID =>	NYTOGS	MW-1		MW-2		MW-3	MW-4		MW-5
Date Collected =>	_	11/21/00		11/21/00	)	11/21/00	11/21/0	0	11/21/00
VOCs by 624 (ug/l)					·				
Isopropylbenzene	NS	1	U	1	U	1 U	1	U	1 Ü
Bromobenzene	NS	1	Ü	1	ט	1 U	1	Ū	1 U
1,2,3-Trichloropropane	NS	1	U	1	Ü	1 U	1	U	1 U
n-Propylbenzene	NS	1	U	1	ט	1 U	1	U	1 U
2-Chlorotoluene	NS		U	1	ט	1 U	1	U	1 U
1,3,5-Trimethylbenzene		1	U	1	ט	1 U		U	1 U
4-Chlorotoluene	NS	1	U	1	U	1 U	1	Ü	1 U
tert-Butylbenzene	NS		U	1	U	1 U	1	U	1 U
1,2,4-Trimethylbenzene	5	1	U	1	U	1 U	1	U	1 Ü
sec-Butylbenzene	NS	1	U	1	U	1 U	1	U	1 U
p-Isopropyltoluene	NS	1	U	1	ט	1 U	1	U	1 U
n-Butylbenzene	NS	1.	U	1	IJ	1 U	1	U	1 U
Dibromochloropropane	NS	1	Ü	1	U	1 U	1	U	1 U
1,2,4-Trichlorobenzene	5	1	U	1	ט	1 U	1	U	1 U
Hexachlorobutadiene	5	1	U	1	U	1 U	1	U	1 U
Naphthalene (v)	10	1	U	1	U	1 U	1	U	1 U
1,2,3-Trichlorobenzene	5	1	U	1	U	1 U		U	1 U
ter.ButylMethylEther	50	_	U	1	U	1 U		U	1 U
p-Ethyltoluene	NS		U	1	U	1 U		U	1 U
Freon 113	5		U	1	U	1 U		U	1 U
1,2,4,5-Tetramethylbenzene	NS		U	1	U	1 U		U	1 U
Acetone	50		U	10	U	10 U			10 U
Methyl Ethyl Ketone	50		U	10	U	10 U		_	10 U
Methylisobutylketone	NS	10	U	10	U	10 U	10		10 U
Chlorodifluoromethane	NS	1	U	1	U	1 U	1	U	1 U
p-Diethylbenzene	NS	1.	U	1	U	1 U	1	U	1 U

### TABLE 3-5b

Ground Water Sampling Results (May 2002) J&H Manufacturing Corp. Carle Place, NY

Sample ID =>	NYTOGS	MW-1		MW-2		MW-3		MW-4		MW-5
Date Collected =>		05/16/02	2	05/16/02	<u>.</u>	05/16/02		05/16/02		05/16/02
VOCs by 8260b (ug/l)						,		<u> </u>		
Chloromethane	5	5	U	5	U	5	U	5	U	5 U
Vinyl Chloride	2	5	U	5	U	5	U	5 1	U	5 U
Bromomethane	5	5	Ū	5	U	. 5	U	5 1	U	5 U
Chloroethane	5	5	U	5	U	5	U	5 1	Ū	5 U
1,1-Dichloroethene	5	5	U	5	U	5	U	5 1	U	5 U
Carbon Disulfide	NS	5	U	5	U	5	U	5 1	U	5 U
Methylene Chloride	5	5	Ü	5	U	5	U	5 1	U	5 U
trans-1,2-Dichloroethene	5	5	U	5	U	5	U	5 1	U	5 U
1,1-Dichloroethane	5	5	IJ	5	U		U	5 1	U	5 U
cis-1,2-Dichloroethene	5	0.5		Heron Total			U		U	18 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -
Chloroform	7	5	U	5	U		U		U	5 U
1,1,1-Trichloroethane	5	5	IJ	5	Ü		U	5 1	U	5 U
Carbon Tetrachloride	5	5	כ	5	U		Ũ		U	5 U
1,2-Dichloroethane	1	5	כ	5	U	5	U	5 1	U	5 U
Benzene	1	5	U	5	U	5	U	5 1	U	5 U
Vinyl Acetate	NS	5	U	5	U		Ū		Ū	5 U
1,2-Dichloropropane	5	5	U	5	U		Ü	5 1	U	5 U
Bromodichloromethane	50	5	IJ	5	U	5	U	_	U	5 U
cis-1,3-Dichloropropene	5	5	Ū	5	U		U		U	5 U
Toluene	5	5	U	5	U		U		Ū	5 U
trans-1,3-Dichloropropene	5	5	U	5	U		U		U	5 U
1,1,2-Trichloroethane	5	5	U	5	U		U		U	5 U
Tetrachloroethene	5	240	ENGINEERING CO.	學 生 数 55	<b>W</b>		U		U	68
Dibromochloromethane	NS	5	U	5	U	_	U		Ü	5 U
Chlorobenzene	5	5	U	5	U		U		U	5 U
Ethylbenzene	5	5	U	5	U	_	U		U	5 U
Bromoform	50	5	U	5	U		U		U	5 U
1,1,2,2-Tetrachloroethane	5	5	U	5	U		U		U	5 U
Trichloroethylene	5	3643 2 12		45.保2.体29		- 1	U		U	\$ 16 r.s
Xylene (total)	5	5	U	5	U		U		G	5 U
Styrene	5	5	U	5	U		U		U	5 U
Acetone	50	10	U	10	U		U		C	10 U
Methyl Ethyl Ketone	50	10	U	10	U		U		Ü	10 U
Methylisobutylketone	NS	10	U	10	U		U		Ŭ	10 U
2-Hexnone	50	10	U	10	U	10	U '	10 T	U	10 U

# TA 1-6 WELL SEA , RESULTS JOHNSON & HOFFMAN MANUFACTURING CORPORATION CARLE PLACE, NEW YORK

Preparer: ERM, Inc.
Name of Site: Johnson & Hoffman
Street Address: 40 Voice Road, Carle Place, NY
Township: Town of Hempstead
County: Nassau County

Use of Well (Notes)	Public Supply	General (This address is connected to Carle Place WD for potable water service.)	connected to Carle Place WD (for potable water service)	General	General	QN	Air Conditioning	Public Supply	Air Conditioning & Refrieration	Cooling	Public Sul due to	Cooling & Air Conditioning	Cooling	Air Conditioning (This address is connected to Hempstead WD for potable water service.)	Cooling	Public Supply
Maximum Discharge (gpm)	1200	077	200	450	520	200	120	222	45	45	1404	300	670	180	90	1035
Depth to Ground Water From Surface (feet)	32:-7"	38:9*	37.5	23	21'1"	18	80	12:-9*	50	45	.£:.0*	146*	15	86	54	33
LENGTH OF SCREEN (feet)	09		15	21'-5"	21:-4"	15	11	20	5	5	98	16	40	28	105*	40
LENGTH OF CASING (feet)	393	72	64:1*	62'-10"	41'-5"	535	14	123'-8"	32	09	477	36	282	253	79'-7*	427
TOTAL DEPTH BELOW SURFACE (feet)	463	.OF-08	-6:48	.8~,88	72'-9"	.229	51'-4"	145	36	59	567	28	322	928	06	467
SCREEN DIAMETER (inches)	12	8	<b>9</b>	10	10	9	4	8	4	ş	10	80	8		9	10
CASING DIAMETER (inches)	18	8	8	10	10	80	9	. 80	9	9	30,20,12	01	12	8	9	24
DISTANCE & DIRECTION FROM THE SITE (feet)	750 N	950 S	1200 SE	1300 E-NE	1300 E-NE	1700 NE	1700 NE	1700 NE	2200 E-NE	2200 E-NE	2650.SE	2400 E-SE	2400 E-SE	2650 SE	WS-W 0062	3800 N
PERMIT	N-5596	N-3758	N-2230	N-3699	002E-N	N-5664	N-5665	N-8905	0809-N	6858-N	N-5485	N-2627	N-7186	0908-N	£608-N	N-4082
ADDRESS	Southside of Westbury Ave&west of former Motor Parkway, Mineola, NY	P.O. Box 590, Mineda, NY:	Mineote; NY	Guinea Woods Rd, Carle Placce, NY	Guinea Woods Rd, Carle Place, NY	SW cor Glen Cove Rd & Westbury Ave, Carle Place, NY	Glen Cove Rd Carle Place, NY	Starfire Ct , Valley Stream, NY- T-#20 Suction	s/e cor. Guineawoods Rd., Carle place, NY	Glen Cove Rd & Westbury Ave, Carle Place, NY	1995 Prospect Ave. E. Meadow, NY	Carle Place, NY	150 Old Country Rd., Mineola, NY	100 Fing Road West, Gardan City, NY	122 East Second St., Mineola, NY	Mineola, NY
WELL OWNER	Inc. Village of Mineola	Laboratory Fundure Co., Inc.	Amod Brit Hart LTD	Consolidated Lithographing Corporation	Consolidated Lithographing Corporation	Korvette Westbury, Inc	Larobe Reality, Inc.	Long Island Water Corporation	Rossfeld, Inc.	Korvette's Furninture Centre	Rosseveit Field Water District	US Printing & Lithographing Company	Mason Au Magenheimer	Robert A. Bernhardt and Donald O. Stein	Twentieth Century Plastics Co.	Village of Mineola

ND= No Data Source of Information: State of NY Dept. Of Conservation Div. Of Water Resources Highlighted entries located approximately downgradient from the site

Environmental/Civil Engineering & Hydrogeology

September 24, 1999

Douglas Cohen, Esq.
Brown, Rudnick, Freed and Gesman
City Place I
Hartford, Connecticut 06103-3402

RE: PROPOSAL TO COMPLETE SUBSURFACE INVESTIGATIONS AT JOHNSON & HOFFMAN MANUFACTURING CORPORATION, 40 VOICE ROAD, CARLE PLACE, NEW YORK

### Dear Attorney Cohen:

At your request, HRP Associates, Inc. is pleased to submit the following proposal to complete a limited subsurface investigation at the Johnson & Hoffman Manufacturing facility located in Carle Place, New York. This proposal is based on various discussions and correspondences with Messrs. Dana Wagner and David Jerde of Liesch Associates, Inc. and Mr. Denny Duffy of the Superior Group.

Previous subsurface investigations by Liesch Associates determined that halogenated solvents (primarily tetrachloroethylene [PCE]) are present in the soils located outside the building to the south of Finishing Department. In addition, groundwater sampling determined that PCE and associated compounds are present within monitoring wells MW-1 and MW-2, which are located in a presumably downgradient location from the facility's Finishing Room. HRP proposes to utilize a phased site investigation approach to evaluate the extent and degree of this contamination. The first phase will consist of the completion of a soil gas survey. The second phase will include the installation and sampling of two additional, shallow groundwater monitoring wells and collection of soil samples from target areas identified by the soil gas survey. The necessity of additional actions will be determined following completion of this investigation.

Based upon HRP's experience in completing similar projects and knowledge of the Johnson & Hoffman facility the following Scope of Work will be completed.

### SCOPE OF SERVICES

### Task One: Utility Mark Out

HRP proposes to install two ground water monitoring wells, eight soil borings and install soil gas sampling points on-site. Their preliminary locations are depicted on the Figure 1.

HRP will mark out the sampling locations prior to installation and, as require by law, contact the utility-locating service prior to drilling activities. All available site utility information will also be reviewed.

Mr. Douglas Cohen September 24, 1999 Page 2

FROM:

### Task Two: Soil Gas Survey

Previous subsurface investigations identified elevated concentrations of PCE and its associated breakdown products within in the soils located outside the building to the south of the Finishing Room in the vicinity of soil boring SB-5 and monitoring well MW-2. In order to evaluate the source(s) of these contaminants and determine their degree and extent, HRP will conduct a soil gas survey.

The soil gas survey will be initiated in the vicinity of SB-5 and MW-2 where PCE and its associated breakdown products were detected in the soils. The soil gas survey will be conducted by advancing a small diameter hole (i.e. ½") through concrete, bituminous or soil surfaces. Following installation, a pre-cleaned slam bar will be advanced to a depth of approximately 4 feet to complete the probe points. Once the desired depth is achieved, the slam bar will be removed, and a glass thief will be inserted into the hole, the annulus sealed with molding clay, and the glass thief connected to a personal air-sampling pump. Soil gas will be purged from the sampling point and a soil gas sample will be collected into a one liter Tedlar bag. Vacuum readings will be recorded during the sample collection to evaluate the potential for channeling within the soils. Once enough soil gas has been collected to fill the bag, a syringe will be inserted into the bag to extract a soil gas sample for analysis via a field gas chromatograph (GC) for the presence of selected halogenated volatile organics (i.e. PCE, Trichloroethylene, and c-1,2 Dichloroethylene and t-1,2 Dichloroethylene). associated breakdown products are present within the collected soil gas sample, the survey will be expanded in all directions on a 20 foot grid. The survey will continue until less than 150 ppb of each individual contaminant is detected within the collected soil gas sample or the north or west walls of the finishing room and/or addition area are reached. In addition, a minimum of two soil gas points will be completed in the former solvent storage tank location. Figure 1 shows the estimated maximum potential number and locations of sampling points with proposed boundaries.

Following the completion of the survey the collected soil gas concentrations will be plotted to identify the areas of greatest soil gas contamination and evaluate its horizontal extent. Based on this information, HRP will install up to eight soil borings in the locations that exhibited elevated soil gas contaminant concentrations. The borings will penetrate through the lower permeability unit identified by Liesch Associates and at least 0.5 feet into the underlying higher permeability materials (i.e. sands). It is anticipated that eight soil samples will be collected from each soil boring in one-foot vertical increments. The soil samples will be collected by coring a 4" hole though the surface material (e.g. concrete, bituminous asphalt) then advancing a machine driven auger and split spoon or direct push sampler to collect soil samples from the just beneath the concrete floor to a depth of 8 feet below the floor. The collected soil samples will be reviewed in the field for physical evidence of contamination (i.e. odor, staining), cataloged, placed in a sample container, labeled and stored on ice for preservation. In addition, a portion of each sample will be field screened for the presence of

Mr. Douglas Cohen September 24, 1999 Page 3

VOCs via a field GC. Based upon the field screening, HRP will submit one or two samples from each boring (16 samples maximum) to a state certified laboratory for analysis of the presence of halogenated volatile organics via EPA Method 8021B.

### Task Three: Ground Water Monitoring

As previously noted, low levels of PCE were detected within groundwater samples collected from MW-2 and MW-1. In addition, TCE and 1,2-Dichloroethylene were detected in a groundwater sample collected from MW-2. Each of these concentrations was detected above the NYSDEC Groundwater Quality Standards. In order to document the site's groundwater flow direction and the horizontal extent of groundwater contamination, HRP proposes to install two additional shallow groundwater monitoring wells as follows (see Figure 1 for well locations):

MW-4: to be installed in the northeast corner of the site, as close to directly

upgradient of the source area as allowed by site conditions, to evaluate

the quality of groundwater entering the site.

MW-5: to be installed to the south of MW-2.

The additional wells will be installed approximately eight feet into groundwater by a truck mounted hollow stem rig. The wells will be constructed of two-inch I.D. schedule 40 PVC casing and ten feet of 0.010" slot well screen. The screened section of the wells will be surrounded with clean filter sand and the wells will be protected with a locking well cap and a bolt-down cast iron hand hole set in concrete and flush with existing grade. One-foot thick bentonite seals will be set above the well screen and immediately below the concrete pad. Based upon a review of the Liesch report, groundwater is expected to be approximately 49 to 50 feet below grade. Therefore, we estimate that wells will be installed at a depth of approximately 57 feet below grade that is consistent with the construction of existing wells MW-1, MW-2 and MW-3.

Ten days after installation the well locations will be surveyed to an assumed bench mark. The depth to groundwater in the new well and the three existing wells will be measured to a relative benchmark to determine the site's groundwater flow direction. After completing the depth measurements, the wells will be purged by removing six well volumes, and then the wells will be sampled with disposal mechanical bailers. The collected groundwater samples will be placed in appropriate containers, labeled, reviewed for physical evidence of contamination, placed on ice for preservation and delivered to a state certified laboratory for analysis of the presence of halogenated volatile organics via EPA Method 8021B.

Drill tailings and purged water will be contained in drums pending sampling for proper disposal.

Mr. Douglas Cohen September 24, 1999 Page 4

### Task Four: Report

Upon completion of the laboratory analysis of the soil and groundwater samples, HRP will submit a report that summarizes the site investigation, field and laboratory results, conclusions and recommendations for additional investigations, if required. The report will also include figures depicting site features and location, and other relevant documentation.

### PROJECT BUDGET

HRP will complete the tasks noted above on a Time and Materials basis, as described in the attached contract, not to exceed

Please note that the estimated costs represent our best estimate of the appropriate level of effort required to perform the work described in the Scope of Services based typical metal stamping operations, review of the Liesch report and various discussions and correspondence with Liesch Associates and Superior Group. Therefore the Scope of Work is subject to change if unanticipated conditions are encountered during the site work. The total estimated costs would not be exceeded without prior approval from the client. HRP will notify the client of any changes in the proposed Scope of Services and associated costs as soon as they are indicated.

### PROJECT SCHEDULE; AUTHORIZATION TO PROCEED

The project will be completed within six to eight weeks of receipt of authorization to proceed.

If you have any questions please do not hesitate to contact me at (518) 399-1174. Thank you for the opportunity to be of service.

Sincerely,

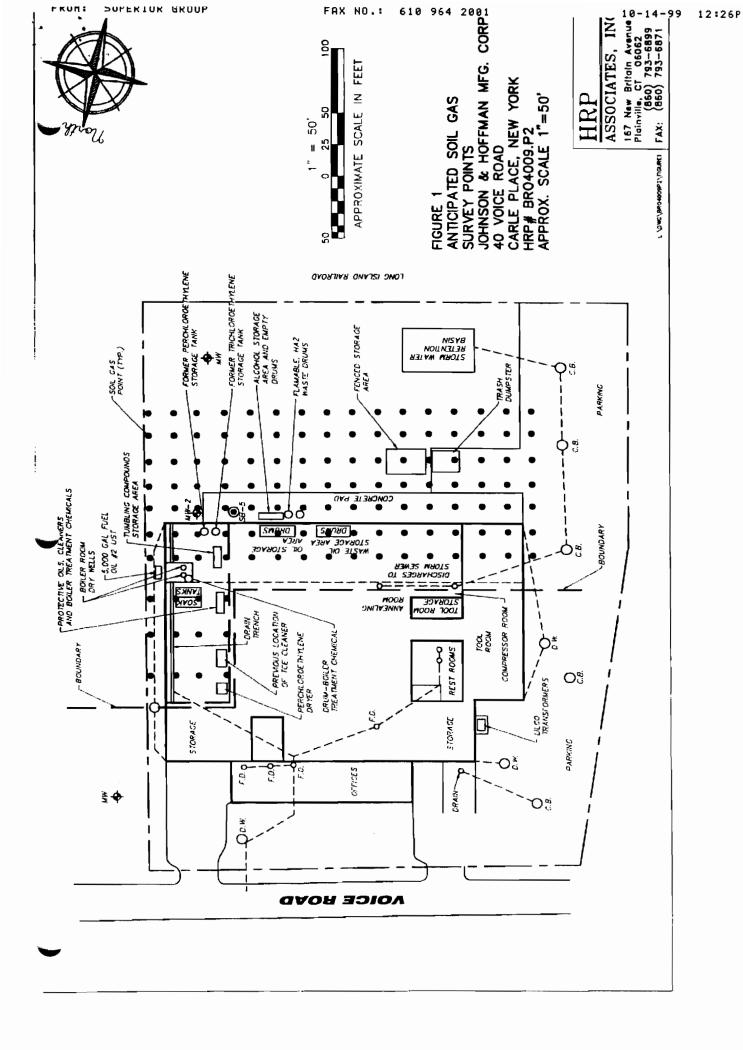
Project Manager

Associate Vice President

CC: Mr. Thomas Stuges, Harding Group

Buperior Confirm

Dana Wagner and David Jerde, Liesch Associates, Inc.



P.06

CLIENT: LIESCH ASSOCIATES

PROJECT NAME: JOHNSON & HOFFMAN

MANUFACTURING LOCATION: CARLE PLACE, NY

DRILLER: M. St. John

INSPECTOR: D. Larson

### NEW ENGLAND BORING CONTRACTORS OF CT., INC.



129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 -- (413) 733-1232 FAX (860) 657-8046

Casing Sampler Core Barrel HSA SS TYPE 4-1/4" 1-3/8" SIZE I.D.

BORING No. MW-1 SHEET 1 OF 1

ARCHITECT/ **ENGINEER** 

FILE NO. LIESCHJO

SURFACE ELEV.

١		START: 2-10		HAN	MER WT. MER FALL	140 30"	LINE 8	k STATION	
	DATE F	INISH: 2-10				· · · · · · · · · · · · · · · · · · ·	OFFS	T	
	No.	DEPTH RANGE IN FEET	SAMPLE  BLOWS PER 6* ON SAMPLER  0-6   6-12   12-18   18-24	REC.	CASING BLOWS/ CORING TIMES PER FT.	FIELD CLASSIFICATION AND REMARKS		Well Cons.	Installation Details
	S1	0'-2'	No Required	20*		Topsoil	······································		Roadway Box
·	S2	2'-4'	Blows	18"		Brown Fine - Coarse Sand, Some Silt			47' of 2" PVC Riser
	83	4'-6'		14"		Brown Silt, Little Fine Sand	. 1.5		
	<b>S</b> 4	6'-8'		10"		Brown Fine - Coarse Sand, Some Fine - Coar Gravel	se		
	S5 ·	8'-10'		14"		Gravei			
	<b>S</b> 6	10'-12'		16*					
	<b>S</b> 7	12'-14'		18"					
	\$8	14'-16'		20"					
	<b>S</b> 9	16'-18'		20"				100	
	S10	18'-20'		18"					
				ļ				10 0	
ı									
	S11	25'-27'		15"					
				}					
								100	
	\$12	30'-32'		12"		·			
				1					
	S13	40'-40'2"		0"				100	
									2' Bentonite
									Chip Seal
								:畫:	10' of .010
	S14	50'-52'		24"		·		: <b> </b>   :    :	Slot, 2" PVC Screen
	0,4 1	55 02						:量:	NJ #2 Sand
								[:畫:	
							57	:書:	
-						End of Boring @ 57' Water @ 50'			Bottom of We @ 57'
	NOTES:	approximate b	ion lines represent the 2) Water level re soundary between soil in the drill hal	es at times i	end under	REMARKS:		-	
		types. Transf	tions may be gradual conditions stat Fluctuations in water may oc than those po	ed on the b n the tevel ou due to fac	oring logs. al ground- ctors other				
			trements water	made.					

CLIENT: LIESCH ASSOCIATES

PROJECT NAME: JOHNSON & HOFFMAN

MANUFACTURING LOCATION: CARLE PLACE, NY

RILLER: M. St. John

INSPECTOR: D. Larson

DATE START: 2-10-99

#### NEW ENGLAND BORING CONTRACTORS OF CT., INC.



129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 -- (413) 733-1232 FAX (860) 657-8046

Core Barrel

BORING No. MW-2 SHEET 1 OF 1

ARCHITECT/ ENGINEER

FILE NO. LIESCHJO

SURFACE ELEV.

LINE & STATION

	MAN1. 2-1	. 1		MER FALL	30"	CINE & STATION	
DATE F	INISH: 2-1					OFFSET	
		SAMPLE PER 6"		CASING BLOWS/ CORING		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I=-+=U*
No.	DEPTH RANGE IN FEET	BLOWS PER 6" ON SAMPLER	REC.	CORING	FIELD CLASSIFICATION AND REMARKS	Well Cons.	Installation Details
	IN FEET	0-6 6-12 12-18 18-24		TIMES PER FT.			
SI	0'-2'	No Required	18"	·	Topsoil	י שרוש:	Roadway Box
S2	2'-4'	Blows	16*		4	3 1	47' of 2" PV
					Brown Fine - Coarse Sand, Some Fine - Coars Gravel, Little Silt		Riser
S3	4'-6'		14*				
S4	6'-8'		12"				
\$5	8'-10'		12"				
S6	10'-12'		12"				
S7,	12'-14'		18"				
S8	14'-16'	·	16"				
<b>S9</b>	16'-18'		14"				
\$10	18'-20'		12"				
S11	20'-22'		10"				
\$12	22'-24'		10"				
<b>,</b>							
S13	25'-27'		14"				
S14	30'-32'		18"				
	051.071		4.011				
\$15	35'-37'		16"				
	40'-42'						
S16	40 -42		20"				
							Ol Damesite
S17	451 471		10"				2' Bentonite Chip Seal
317	45'-47'		18"		·		
						::重:	10' of .010
010	E01 501		00"				Slot, 2" PVC Screen
\$18	50'-52'		20"				NJ #2 Sand
						: <b> </b>  :	
						:]	
,					End of Boring @ 57' Water @ 50'		Bottom of We
NOTES:	approximate I	ion fines represent the coundary between soil in the drill hold conditions state.	es at times a ed on the bo	ind under iring logs.	REMARKS:		
		Fluctuations is water may occ than those pre	us due to fect reent at the ti	tous other			
		Mements were	mede.				

CLIENT: LIESCH ASSOCIATES

PROJECT NAME: JOHNSON & HOFFMAN

MANUFACTURING LOCATION: CARLE PLACE, NY

DRILLER: M. St. John

INSPECTOR: D. Larson

DATE START: 2-12-98

NEW ENGLAND BORING CONTRACTORS OF CT., INC.



129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 - (413) 733-1232 FAX (860) 657-8046

Casing Sampler SS HSA TYPE 1-3/8" SIZE I.D. 4-1/4" 140 HAMMER WT.

ARCHITECT/ ENGINEER

Core Barrel

SHEET 1 OF 1

FILE NO. LIESCHJO

BORING No. MW-3

SURFACE ELEV.

LINE & STATION

No. RANGE   ON SAMPLER   REC. TIMES	LASSIFICATION AND REMARKS  Coarse Sand and Fine - Coarse	Well Cons.	Roadway Bo
S1 0'-2'	Coarse Sand and Fine - Coarse	Well Cons.	Roadway Bo
S1 0'-2'	Coarse Sand and Fine - Coarse	Cons	Roadway Bo
S1 0'-2'	Coarse Sand and Fine - Coarse	.2	47' of 2" P\
S2 2'-4' S3 4'-6' S4 6'-8' S5 8'-10' S6 10'-12' S8 14'-16' S9 16'-18' S10 18'-20'  S11 25'-27'  S12 34'-36'  S13 8' S14 12" S15 8'-10' S16 10'-12' S17 12'-14' S18 14'-16' S10 18'-20' S11 25'-27' S12 34'-36'  S13 34'-36'  S14 36' S15 8' S16 16" S17 18" S18 18" S19 18" S10 18'-20' S11 25'-27' S11 25'-27'	Coarse Sand and Fine - Coarse		47' of 2" P\ Riser
\$3  4'-6' \$4  6'-8' \$5  8'-10' \$6  10'-12' \$8  14'-16' \$9  16'-18' \$10' \$18" \$10  18'-20'  \$11  25'-27'  \$20"			
S5       8'-10'       18"         S6       10'-12'       18"         S7       12'-14'       12"         S8       14'-16'       10"         S9       16'-18'       18"         S10       18'-20'       18"         S11       25'-27'       20"			
S6       10'-12'       18"         S7       12'-14'       12"         S8       14'-16'       10"         S9       16'-18'       18"         S10       18'-20'       18"         S11       25'-27'       20"         S12       34'-36'       20"			
S7       12'-14'         S8       14'-16'         S9       16'-18'         S10       18'-20'         18"            S11       25'-27'         20"			·
\$8			
\$9   16'-18'   18"   18"			
S10 18'-20' 18"  S11 25'-27' 20"  S12 34'-36' 20"			
S11 25'-27' 20"  S12 34'-36' 20"			
S13 44'-46'			
S13 44'-46' 18"			
			2' Bentonite Chip Seal
S14 50'-52'		:書:	Slot, 2" PVC Screen NJ #2 Sand
End of Borin Water @ 50  NOTES: 1) The stratification lines represent the 2) Water level readings have been made REMARKS:		57	Bottom of We @ 57'

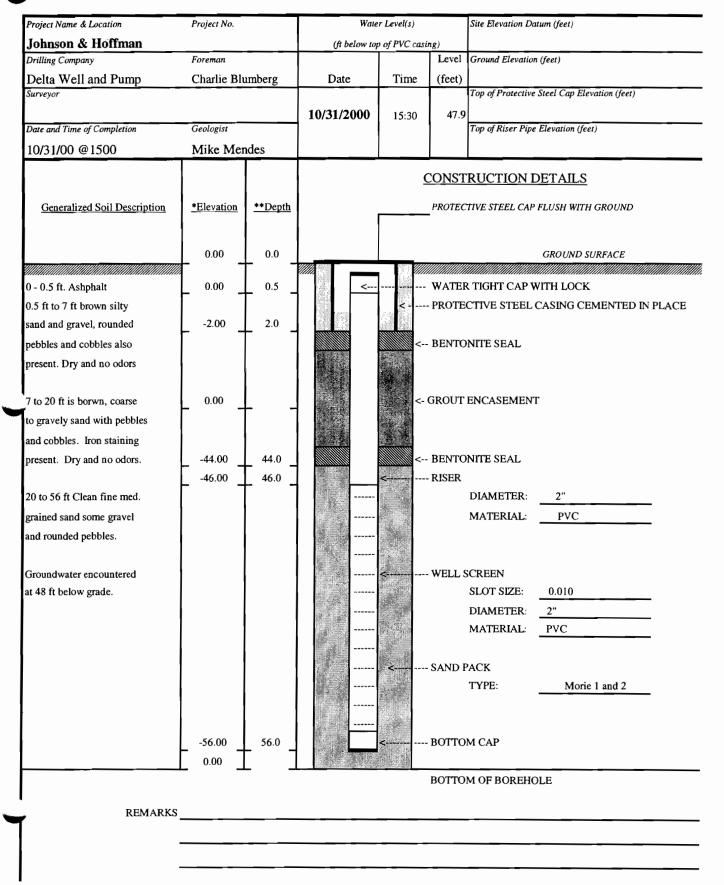
NOTES: 1) The stratification lines represent the approximate boundary between soil types. Transitions may be gradual.

2) Water level readings have been made in the drill holes at times and under conditions stated on the boring logs. Fauctuations in the level of ground-water may occur due to factors other than those present at the time meas-unements were made.

#### **ERM-Northeast**

175 Froehlich Farm Blvd., Woodbury, NY 11797

#### MONITORING WELL CONSTRUCTION LOG



WELL: MW-4

### **ERM-Northeast**

175 Froehlich Farm Blvd., Woodbury, NY 11797

#### MONITORING WELL CONSTRUCTION LOG

Project Name & Location	Project No.		Wate	r Level(s)		Site Elevation Da	tum (feet)
Johnson & Hoffman			(ft below top	(ft below top of PVC casing)			
Drilling Company	Foreman	_			Level	Ground Elevation	ı (feet)
Delta Well and Pump	Charlie Blu	umberg	Date	Time	(feet)		
Surveyor							Steel Cap Elevation (feet)
Date and Time of Completion	Geologist		10/31/2000	14:00	52.0	Top of Riser Pipe	Floration (fast)
						Top of Riser Fipe	Lievation (jeet)
11/01/00 @1500	Mike Mer	naes I					
				<u>C</u>	CONST	RUCTION I	<u>DETAILS</u>
Generalized Soil Description	*Elevation	**Depth			DROTEC	TIME OTERS CAR	ELUGII WEEK ODOLING
<u>Generalized Son Description</u>	Elevation				PROTEC	IIVE SIEEL CAP	FLUSH WITH GROUND
		1					
	0.00	0.0					GROUND SURFACE
	0.00						
0.0 to 7.0 highly silty, poorly	_ 0.00 _	0.5	<			R TIGHT CAP V	
sorted sand, and gravel with	7.00	2.0	10,000	<b>                                     </b>	PROTE	CTIVE STEEL	CASING CEMENTED IN PLACE
pebbles and cobbles.	2.00	2.0 -					
Dry and no odors detected.			237	<	BENTO	NITE SEAL	
				1			
5 . 53 6 . 1	0.00				CDOUT	ENGAGEN (ENG	n
5 to 52 ft is borwn, fine med.	_ 0.00 _			<-	GROUT	ENCASEMENT	Ĺ
and coarse sand with pebbles			12 22				
and cobbles. Iron staining				77.75			
present. Dry and no odors.	45.00 -	45.0				NITE SEAL	
	_ <sup>-47.00</sup> _	47.0	-		RISER	D143400000	<b>a</b> 11
52 to 57 ft is same as above						DIAMETER:	2"
groundwater encountered at						MATERIAL:	PVC
52 ft below grade. No odors							
detected at the water table.		ļ				ann.	
				S	WELLS	SCREEN SLOT SIZE:	0.010
						DIAMETER:	2"
						MATERIAL:	PVC
						MATERIAL.	170
					SAND F	PACK	
						TYPE:	Morie 1 and 2
			<u></u>				
	-57.00	57.0		<	вотто	M CAP	
	0.00	<b>├</b>					
	_			bet 00007025 7000	вотто	M OF BOREHO	OLE
REMARKS						-	
				_			

WELL: MW-5

	Project:	GHJM - AEC Acquisition					
	Drilling Contractor:	New England Boring Contractors					
	Logged By:	Dan Larson					
	Date Start:	2/10/99					
	Date Finished:	2/10/99					
-	E.O.B. (ft.)	57					
ز	Borehole Number:	MW-1					
	Location	South side of property					
	Drilling Equipment:	Mobile drill B53					
1	Driller:						
٠٠٠.	Surface Elevation:				·		<u></u>
. ,	Depth (Ft.)	Description of Material	USCS	PID	Geologic Origin	Samples	Notes
	<b>-</b>	0-2' Brown sandy, gravelly silt loam	ML	0.0			
:	<b>-</b>	2-4' Same	ML	0.0			
	<u>.</u>	2-4 Saltie	IVIL	0.0			
		4-6' Golden brown gravelly coarse-					
4	5	grained sand	SP	0.0			
	-				1		
•	<b>-</b>	6-8' Same	SP	0.0			
٠.	-				! !		
•	- 10	8-10' Same	SP	0.0			
ا. ئىد	I 10	10-12' Same	SP	0.0	1		
		10-12 Game	0	0.0	1		
	•	12-14' Same	SP	0.0			
	-						
2	<b>1</b> 5	14-16' Golden brown sandy gravel	SP	2.4			
	•				1		
	•	16-18' Same	GP	0.0			
	-	10 201 Colden brown grouply coorse			1		
:	_	18-20' Golden brown gravelly coarse- grained sand	SP	0.0			
	20	9.4		00			
٤:							
,	-	·			i I		
	· .		·				
	- 25						
:	20						
•							
	_						
:	N						
•	0						

	Project:						
	- Drilling Contractor:						
•	Logged By:						
	Date Start:						
	Date Finished:	· · · · · · · · · · · · · · · · · · ·					
•	E.O.B. (ft.)						
-	Borehole Number:						
	Location	1					
	Drilling Equipment:						
	Driller:						
	Surface Elevation:		11000	DID	locateria Origin	01	<u> </u>
. '	Depth (Ft.)	Description of Material 25-27' Same	USCS SP	PID 0.0	Geologic Origin	Samples	Notes
		20-21 Game	- 51	0.0			
	•						
	30						
	<u>-</u>	30-32' Same	.SP	0.0			
. 1	_				]		
	<b>3</b> 5						
_		·			i l		
	<b>-</b>						
_2	-						
	<b>4</b> 0	40-42' No recovery			4	1	
		40-42 No lecovery					
	<b>.</b>						
٠.	-				•		
	<b>4</b> 5						
٠.	•						
	-				·		
	50						
	·	50-52' Golden brown sandy gravel	GP	0.0			
<b>.</b>	N						
	0						

O T

١	Project:	GHJM - AEC Acquisition				· · · · · · · · · · · · · · · · · · ·	
	-						
•	Prilling Contractor:	New England Boring Contractors					
	Logged By:	Dan Larson					
	Date Start:	2/11/99					
	Date Finished:	2/11/99					
	E.O.B. (ft.)	57					
Ī	Borehole Number:	MW-2					
,	Location	Near SE Building corner					
	Drilling Equipment:	Mobile drill B53					
Ì	Driller:	Mike St. John & Brian Sullivan					
-!	Surface Elevation:						
;	Depth (Ft.)	Description of Material	USCS	PID	Geologic Origin	Samples	Notes
	-	0-2' Brown sandy gravelly silt loam		1999.0			Chemical odor
	- -	2-4' Same		1999.0			Chemical odor
	- 5	4-6' Same		1999.0			Moist, chemical odor
	•	6-8' Same		1763.0			Chemical odor
	- 10	8-10' Golden brown sandy gravel	GP	200.2			Slight chemical odor
		10-12' Golden brown gravelly sand	SP	108.8			Slight chemical odor
		12-14' Same	SP	42.8			Slight chemical odor
	15 -	14-16' Same	SP	84.2			Slight chemical odor
1	<i>-</i>	16-18' Same	SP	129.7			Slight chemical odor
	- 20	18-20' No recovery					Slight chemical odor
-	• •	20-22' Brown medium-grained sand	sw	95.2			Slight chemical odor
		22-24' Brown medium-grained gravelly sand	sw	33.5			Slight chemical odor
	- 25	·					
	-25						
	N O						
	E S						
-	M4calc2c2Elbarologbil via	Dage 1	-10				

1	Project:	GHJM - AEC Acquisition			,		
٠							
.	Drilling Contractor:	New England Boring Contractors					
	Logged By:	Dan Larson					
- 4	Date Start:	2/11/99					
	Date Finished:	2/11/99					
. :	E.O.B. (ft.)	57					
	Borehole Number:						
]	Location	Near SE Blvd.					
	Drilling Equipment:	·					
i	Driller:	· ·					
	Surface Elevation:	·					
	Depth (Ft.)	Description of Material	USCS	PID	Geologic Origin	Samples	Notes
.	•	25-27' Brown medium-grained sand	SP	45.1			Slight chemical odor
	•						1
	•						!
	30		:		]		
		30-32' Brown medium-grained					
	•	gravelly sand	SP	8.0			Slight chemical odor
. 1	•						ł
٠.	<u>.</u>						1
- :	<b>3</b> 5						
-					1		
}	•	35-37' Golden brown sandy gravel	SP	44.2	1		
1100	-	, <b>,</b> , , , , , , , , , , , , , , , , ,			1		
	-				]		i
	<b>-</b> .						
	40				1		
		40-42' Golden brown medium			i		
1	-	grained gravelly sand	SP	30.9			i i
,	-	·			i i		
	•	-					
1	- 45						
	<del>- 1</del> 0	45-47' Same	SP	8.2			
7	•	Camo	J ,	0.2			
	-						·
	-	·					
15	50				]		
2	·	50-52' Same	SP	112.6	1		Saturated
		Monitoring well screen set @ 47-57'.			<u></u>		
*	N	Monitoring well screen set @ 47-57.					
*	0						
	T						
	<u></u>						
	S						

7							
		Liesc	h Asso	ciates	s, Inc.		
Г	Project:	GHJM - AEC Acquisition			. *		:
	Drilling Contractor:	New England Boring Contractors	•				
	Logged By:						
1	Date Start:	2/11/99					
Ļ	Date Finished:	2/11/99					
İ	E.O.B. (ft.)	57					
ĺ	Borehole Number:	MW-3					
4	Location	Near NW comer of building					
	<b>Drilling Equipment:</b>	Mobile drill B53					
1	Driller:						
	Surface Elevation:						
<b> </b>	Depth (Ft.)	Description of Material	USCS	PID	Geologic Origin	Samples	Notes
F		Asphalt surface					
-							
ı	•	2-4' Brown gravelly fine to medium-					
ŀ		grained sand	SP	0.0			3* recovery
-	-5	4-6' Same		0.0			
-		6-8' No recovery					
:		8-10' Golden brown medium-grained gravelly sand	SP	0.0			
-	70	10-12' Same	SP	0.0			
-		12-14' Same	SP	0.0			
-	-15	14-16' Same	SP	0.0			
-							
L					1		

N O

-25

E

W:\sa\62625\borelogN1.xis

24-26' Brown fine-grained gravelly

sand

SP

	<u> </u>		11 A550	Clate	5, 1110.		
. 1	Project:	GHJM - AEC Acquisition					
1	Drilling Contractor:	New England Boring Contractors					
, ,	Logged By:	Dan Larson					
-	Date Start:						
.!	Date Finished:	2/11/99					
	E.O.B. (ft.)						
-	Borehole Number:						
	Location						
	Drilling Equipment:						
	Driller:	Mike St. John & Brian Sullivan					
- 1	Surface Elevation:	Description of Material	USCS	PID	Goologic Origin	Camples	Notes
- 1	Depth (Ft.)	Description of Material	0303	FID	Geologic Origin	Samples	Notes
	<b>-</b> .				· [		
	<b>-</b>						
	-						
	30 -		·				
					1		
	•						·
	-						
ź	35	34-36' Golden brown medium- grained gravelly sand		0.0			
	-	grained gravelly saild		0.0			
	-						
	-						
 - :							
	<b>4</b> 0 -						
	-				1		
17	-						
,	- 4E	44 461 Como		4.0			·
	45 -	44-46' Same		1.6			
	•				İ		
	-						
	- –50						
2		50-52' Same		3.0			
		SO SE GUITO		5.5			
	.,				<u> </u>		
	N O						
	Ť						
<u> </u>	Ę.						
7	S						



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

MW-4

	roject Name					Project Number	Date & Time Started:	10/31/00 @09:00	
		n and H	offman				Date & Time Completed:	10/31/00@12:00	
•	rilling Comp		_			Foreman	Sampler(s)	Sampler Hammer	Drop
		ell and l	Pump			Charlie Blumberg  Method	Elevation & Datum	140 lbs	30inches
•	rilling Equip F-10 Dr					H.S.A.	Elevation & Datum	Completion Depth 56 feet	Rock Depth
	it Size(s)	III Kig				Core Barrel(s)	Geologist(s)	J0 1661	
		.25 inch				1-3/8 inch	Michael Mendes		
ŀ	DEPTH		SAMPLI	ES				l''	-
ı				FID/		SOIL DES	SCRIPTION	REMARKS	
ı	(ft below	Sample	Recovery	PID	Blow				
-	grade)	Number LOCATION	(feet)	(ppm)	Counts	SURFACE DESCRIPTION:			
ı		l				SURFACE DISCRIPTION.			
ŀ	_ o -		Bay area (a			D 011 1 11 1			
ı		NA	NA	0.0	NA	Brown Silty sand with gravel pe	ebbles and cobbles.	Dry no odors	
ı									
	_								
H	_ 5 .	-		0.0					
				0.0					
	<b>-</b> 10 ·			0.0		10 to 12 ft Poorly sorted sand a	nd gravel some	Dry no odors	
ı				0.0		sporadic rounded pebbles and in		21, 20 00012	
ı						sportatio rounded provide and r	- Con Standing		
Į									
7	- 15 ·			0.0					
ı									
ı									
ı	20								
r	<b>-</b> 20 ·			0.0		20 to 22 ft Fine to medium grai	ned sand and gravel	Dry no odors	
ı						poorly sorted trace hematite iron			
ı									
L	_ ^ .								
Г	- 25			0.0			_		
L	- 30 <del> </del>								
				0.0		30 to 32 ft Iron stained coarse t		Dry no odors.	
						some pebbles present. Trace her	matite.		
$\vdash$	- 35			0.0					
				0.0					
	ŀ								
	40								
H	_ 40			0.0		40 to 42 ft Iron stained medium	to coarse sand with	Dry no odors.	
				0.0		some fine sands, trace gravels, t		Dij 110 00013.	
	Ì					nav oanas, auco piarois, t	p		_
-	- 45 <del> </del>			0.0		45 to 47 ft Dry fine to medium	sand some coarse		
7						gravel, trace pebbles.			
						47 to 49 ft Groundwater encoun	tered at 48 ft. fine to	Groundwater at 48 ft	
L	_ 50 ]					medium sand well sorted trace g	gravel.		
	•								



520 Broad Hollow Road, Suite 210, Melville, New York 11747

Boring Number MW-4

DEPTH SAMPLES			ES			
(ft below grade)	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
50 =	NA	NA	0.0	NA	50 to 52 ft Fine to medim sand with some coarse sand and gravel. Saturated.	
- 55 -			0.0		55 Poorly sorted sands and gravel 56 ft is end of Boriing.	
- 60						
-						
		_				
Γ − 1						
-		-				
-						
-						
			_			

Page	of	Signature:	 Date:	
			·	



520 Broad Hollow Road, Suite 210, Melville, New York 11747

Boring Number MW-5

LN	.VI				DOMING	LOG		
Project Name					Project Number	Date & Time Started:	11/01/00 @ 08:30	
	n and H	offman				Date & Time Completed:	11/01/00 @ 08:30	
Drilling Comp Delta W	ell and l	Pump		_	Foreman Charlie Blumberg	Sampler(s)	Sampler Hammer 140 lbs	30inches
Drilling Equip F-10 Dr					Method H.S.A.	Elevation & Datum	Completion Depth 57 feet	Rock Depth
Bit Size(s) H.S.A 4	.25 inch				Core Barrel(s) 1-3/8 inch	Geologist(s) Michael Mendes		
DEPTH		SAMPLE	ES					
(ft below grade)	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		SCRIPTION	REM	ARKS
	LOCATION Grass fiel				SURFACE DESCRIPTION:			
— o ·	NA	NA	0.0	NA	Brown Silty sand with gravel po	ebbles and cobbles.	Dry no odors	
_ 5								
			0.0					
_ 10								
10			0.0		10 to 12 ft Poorly sorted sand a sporadic rounded pebbles and i	-	Dry no odors	
1.5								
— 15 ·			0.0		15 to 17 ft Brown sand coarse some fines. Some pebbles roun		Dry no odors.	
└ └─ 20 ·								
20			0.0		20 to 22 ft Fine to medium grain poorly sorted trace hematite iro		Dry no odors	
_ 25								
— 25			0.0					
— 30 ·								_
30			0.0		30 to 32 ft Iron stained coarse some pebbles present. Trace he	_	Dry no odors.	
— 35 ·				_				
33			0.0					
40 .			0.0		40 to 42 ft Medium grained sa	nd poorly sorted, with	Dry no odors.	
			0.0		some coarse sand and gravels, s		Dry no odols.	_
<del></del> 45			0.0		45 to 47 ft Dry fine to medium	sand some coarse		
			0.0		gravel, trace pebbles.  47 to 49 ft Brown fine to medium		Groundwater at 48 ft	
50					trace coarse sand, iron staining		Oloundwater at 46 It	
	Page	1	of	2	Signature:		Date:	



Page \_\_\_\_\_ of

#### ERM Inc.

520 Broad Hollow Road, Suite 210, Melville, New York 11747

Boring Number MW-5

#### **BORING LOG**

DEPTH	H SAMPLES					
(ft below grade)	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
50 =	NA	NA	0	0	49 to 51 ft Brown sands poorly sorted, trace gravel and small pebbles. Iron staining present.	
					51 to 53 ft Groundwater encountered, brown fine to medium saturated sand with trace gravel and coarse.	
- 55 -			0		55 Poorly sorted sands and gravel. 57 ft is end of Boriing.	
- 60 -						
00						
<b></b> -						
					_	
1					_	
		_				

Signature:

Date:

	Project:	GHJM - AEC Acquisition	<del>-</del>		· · · · · · · · · · · · · · · · · · ·	······································	
,	ירוlling Contractor:	New England Boring Contractors					
1	Logged By:	Dan Larson					
1	Date Start:						
ĺ	Date Finished:	2/11/99			•		
.]	E.O.B. (ft.)						
	Borehole Number:						
	Location	3' South of LIST pear SE building				. •	
	Drilling Equipment:						
1	Driller:						
٠.,							
1	Surface Elevation:		11000	DID	10 1 10 11	0	I Nic
	Depth (Ft.)	Description of Material	USCS	PID	Geologic Origin	Samples	Notes
		Hand shovel to 4' - no visual or olfactory signs of petroleum impacts					
	•						
┪	•						
١	_						
-	5 -	4-6' Brown gravelly, sandy silt loam		0.0			·
	<b>.</b>	6-8' No recovery					Rock n' spoon
إ		8-10' Golden brown medium-grained			li i		1
4		gravelly sand	SP	0.0			
	10						
Fig. 7. 1.1	-	10-12' Same		9.8			Slight fuel oil odor
	-						
	<b>.</b>	12-14' Same		2.2			
	15 -	14-16' Same	SP	0.0			
		16-18' Same	SP	0.0			·
		40.001.0					
	•	18-20' Same	SP	0.0			
-	20						
٠,	-	·					
	-						
-	-	•					
I	•						
	25						
<i>:</i>							
ļ	-				<u> </u>		
	N	·					
ا '	N						
	E						
	S						
Ŀ	W:\sa\62625\borelogN1.xls	Page 1	-64				

#### GZA GEOENVIRONMENTAL, INC. Boring No.: SB-I **40 VOICE ROAD** 1 of 1 Page: Engineers and Scientists CARLE PLACE 62625/42197 File No.: 27 Nack Road LONG ISLAND, NEW YORK Checked By: Vernon, Connecticut 06066 (860) 875-7655 Groundwater Readings Casing Sampler Stabilization Boring Co. GZA GeoEnvironmental, Inc. S.S. Date Time **HSA** Time Foreman A. Augustine Type Depth Casing 2" O.D. 2/16/99 2-1/4" 1430 GZA Rep. J. White I.D./O.D. NA 140 lb. 2/16/99 Date End 2/16/99 Hammer Wt. Date Start 30" Hammer Fall Location See plan Datum Other G.S. Elevation Equipment Installed Sample Information Field Test Pen/ Depth Data Sample Description & Classification | Stratum Description Rec. Blows/6" $(\Omega)$ S-1: Medium dense, grey S-1 24/18 0-2 4-7 brown, fine to medium SAND, ND FILL 6-8 S-2 24/16 2-4 14-10 trace fine Gravel, trace Silt NO EQUIPMENT 10-10 ND S-2: Medium dense, dark INSTALLED 4.5' S-3 20/17 4-6 3-3 brown, fine SAND, some 5 4-4 ND organic Silt SILT 24/16 6-8 5-7 S-3: Top 6" dark brown, fine **S-4** 7.0 12-16 ND SAND, some organic Silt Bottom brown, SILT, trace, FINE TO S-5 24/16 8-10 6-12 MEDIUM SAND 10 16-21 ND fine SAND 10.0' S-4: Top 12" brown SILT, S-6 20/13 10-12 11-16 FINE TO 14-14 ND trace fine Gravel, trace coarse **COARSE** 12-14 12-16 to fine Sand. Bottom brown, 24/18 18-20 ND fine to medium Sand, trace, SAND fine Gravel, trace Silt 15 S-5: Medium dense, light brown, 14.0' fine to medium Sand, trace, END OF fine Gravel, trace Silt EXPLORATION S-6: Dense, light brown, fine to coarse SAND, trace, fine 20 Gravel, trace Silt S-7: Dense, light brown, fine to coarse SAND, trace, fine Gravel, trace Silt 25 30 Soil samples field screened with a 10.6 eV ThermoEnvironmental Instruments Model 580B organic vapor meter (OVM) or HNu Model PI-101 photoionization detector (PID). OVM or PID values represent meter response in parts per million (ppm) relative to a benzene in air and above R background readings. "ND" stands for None Detected above background E Samples moist below 6 feet below grade. M A R ĸ S

Engineers and Scientists 27 Nack Road

Vernon, Connecticut 06066 (860) 875-7655

G.S. Elevation

#### 40 VOICE ROAD CARLE PLACE LONG ISLAND, NEW YORK

Boring No.:	SB-2
Page:	1 of 1
File No.:	62625/42197
Checked By:	

Groundwater Readings

Casing Sampler GZA GeoEnvironmental, Inc. Boring Co. **HSA** S.S. A. Augustine Турс Foreman I.D./Q.D. 2-1/4\* 2" O.D. J. White GZA Rep. 2/16/99 140 lb. 2/16/99 Date End Hammer Wt. Date Start 30" Hammer Fall Location See plan

Datum

Other

Date Time Depth Casing Time
2/16/99 1555 NA

ų.		S Pea.	ampie in Depth	formation	Field Test			ner ke	Equipment Installed
Depth	No.	i) ec	(0)	Blows/6"	Data		Stratum Description		
	S-1	24/14	0-2	4-3		S-1: Medium dense, grey			
• '				7-7	ND	brown, fine to medium SAND,			
	S-2	24-12	2-4	7-8		some fine Gravel, trace Silt			NO EQUIPMENT
				14-14	ND	S-2: medium dense, brown,			INSTALLED
.5	S-3	24/11	4-6	7-11		fine to medium SAND, some			. '
				13-16	ND .	fine Gravel, trace Silt			
	S-4	24/20	6-8	19-16		S-3: Medium dense, light	SAND		
				17-19	ND	brown, fine to coarse SAND,			
	S-5	24/16	8-10	6-16		some fine Gravel			
10				17-21	ND	S-4: Dense, light brown, fine	1		
	S-6	24/18	10-12	10-12		to coarse SAND, some fine			
				13-13	ND	Gravel, trace Silt			
	S-7	24/14	12-14	12-12		S-5: Dense, light brown, fine			
	<u> </u>			12-14	ND	to coarse SAND, some fine			
15		·				Gravel, trace Silt	140		
		ļI				S-6: Medium dense, light	14.0'		A
						brown, fine to coarse SAND,	END OF		
						some fine Gravel, trace Silt	EXPLORATION		
						S-7: Medium dense, light			
20						brown, fine to coarse SAND,			
				· ·		some fine Gravel, trace Silt			
						1			
						1		İ	
25						· ·	ļ		
23	<u> </u>							1	
						i		l	
30						1			

- Soil samples field screened with a 10.6 eV ThermoEnvironmental Instruments Model 580B organic vapor meter (OVM) or HNu Model PI-101
  photoionization detector (PID). OVM or PID values represent meter response in parts per million (ppm) relative to a benzene in air and above
  background readings. "ND" stands for None Detected above background.
- Samples moist below 6 feet below grade.

R E M A R K

S

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under

**Engineers and Scientists** 27 Nack Road

Vernon, Connecticut 06066 (860) 875-7655

G.S. Elevation

#### **40 VOICE ROAD CARLE PLACE** LONG ISLAND, NEW YORK

Boring No.:	SB-3
Page:	1 of 1
File No.:	62625/42197
Checked Bu:	

Groundwater Readings

Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler Foreman A. Augustine Type HSA S.S. I.D./O.D. 2-1/4" 2" O.D. GZA Rep. J. White 2/16/99 140 lb. Date Start 2/16/99 Date End Hammer Wt. See plan 30\* Location Hammer Fall

Other

Datum

Stabilization Date Casing Time Depth Time 2/16/99 1720 NA

	Sample information					Equipment Installed			
								9	
Depth	No.	Pen. Re.	Depta (0)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	ems)	
ss=ssss	S-1	24/10	0-2	5-9		S-1: Medium dense, brown		-	
				10-13	7	grey, fine to medium SAND,	SAND		
1	S-2	24/18	2-4	6-4	2	some fine Gravel, little Silt	3 <b>.5</b> '		NO EQUIPMENT
				4-6	7	S-2: Top 12" medium dense,	SILT		INSTALLED
5	S-3	24/16	4-6	4-7		orange brown, fine to medium,	5.0'		
				5-10	0.8	SAND and fine GRAVEL,	·		
	S-4	24/16	6-8	11-14		trace Silt. Bottom 6" dark brown,			
				16-18	ND	SILT, little fine Sand			
	S-5	24-17	8-10	7-12		S-3: Top 12" medium dense,			
10				12-14	ND	dark brown, SILT, little fine	GRAVEL		
	S-6	24/20	10-12	8-14		to coarse Sand. Bottom 6" light	AND		
				14-16	ND	brown, fine GRAVEL and fine	SAND		
	S-7	24/13	12-14	12-15		to coarse SAND, trace Silt			
				18-21	ND	S-4: Dense, brown, fine			
15						to coarse SAND, some fine			
						Gravel, trace Silt	14.0'		
li						S-5: Medium dense, light	END OF		
						brown, fine to coarse SAND,	EXPLORATION		
					l	some fine Gravel, trace Silt			
20						S-6: Medium dense, light			
1 1						brown, fine to coarse SAND,	ľ		· .
1 1						some fine Gravel, trace Silt			
1 1	,					S-7: Medium dense, light			
						brown, fine to coarse SAND,			
25						some fine Gravel, trace Silt			
30	1.	Cailes	unias 6-1	d seemand :	with a 10 6 d	V ThermoEnvironmental Instruments Mode	1 SOOD organic vener	2010-	(OVA) on this Model by 101

Soil samples field screened with a 10.6 eV ThermoEnvironmental Instruments Model 580B organic vapor meter (OVM) or HNu Model PI-101 photoionization detector (PID). OVM or PID values represent meter response in parts per million (ppm) relative to a benzene in air and above background readings. "ND" stands for None Detected above background.

Samples moist below 6 feet below grade.

R

E

М

R K

Engineers and Scientists

27 Nack Road

Vernon, Connecticut 06066

See plan

(860) 875-7655

#### 40 VOICE ROAD CARLE PLACE LONG ISLAND, NEW YORK

Boring No.:	SB-4
Page:	l of l
File No.:	62625/42197
Checked By:	

Groundwater Readings

Boring Co. Foreman GZA Rep.

Date Start

Location G.S. Elevation

Datum

Casing HSA 2-1/4\*

Hammer Fali

Other

Sampler S.S. 2" O.D. 140 lb. 30" Date Time Depth Casing Time

2/17/99 800 NA

U.S. E.	S. Elevation Datum		Juliei						
			ample la	formation					Equipment Installed
Depth	No.	Pen./ Rec.	Depth (0)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description		
30 <b>00</b>	**********	24/15	***********	4-8		S-1: Top 7" medium dense,		****	
				11-11	ND	grey green, fine to medium	FINE TO		
	S-2	24/12	2-4	10-11		SAND, trace fine Gravel,	MEDIUM		NO EQUIPMENT
				4-3	ND	trace Silt. Bottom brown, fine	SAND		INSTALLED
. 5	S-3	24/17	4-6	2-3		to medium SAND, trace, fine	4.0'		
				9-16	ND	Gravel, trace Silt	SILT		
	S-4	24/15	6-8	11-14		S-2: Medium dense, fine to	********************************		
				19-20	3	coarse SAND, trace Silt	6.0'		
i	S-5	24/14	8-10	8-17		S-3: Medium dense, light			
10				17-18	2	brown SILT, trace fine Sand,	FINE TO		
	S-6	24/17	10-12	7-11		trace fine Gravel	COARSE	:	
				16-17	1	S-4: Dark, fine to coarse	SAND		
	S-7	24/21	12-14	19-18	7170	SAND, little, fine Grave, trace			
		<u> </u>		18-18	ND	Silt			
15		-				S-5: Dark, fine to coarse SAND, little, fine Grave, trace	14.0'		
		-			<del> </del>	Silt	END OF		
					· · · · · · · · ·	S-6: Dark, fine to coarse	EXPLORATION		
						SAND, little, fine Grave, trace			
20						Silt			
						S-7: Dark, fine to coarse	1		'
						SAND, little, fine Grave, trace			
						Silt			
25									
						·	·		
		· .							,
			_		<u> </u>				
30			16.1	1			1 690D		(OVA) on IDIu Model DI 101

Soil samples field screened with a 11.8 eV ThermoEnvironmental Instruments Model 580B organic vapor meter (OVM) or HNu Model PI-101
photoionization detector (PID). OVM or PID values represent meter response in parts per million (ppm) relative to a benzene in air and above
background readings. "ND" stands for None Detected above background.

. Samples moist below 2 feet below grade.

R E

M A R K

Engineers and Scientists

27 Nack Road

Vernon, Connecticut 06066

(860) 875-7655

#### **40 VOICE ROAD** CARLE PLACE LONG ISLAND, NEW YORK

Boring No.:	SB-5
Page:	l of l
File No.:	62625/42197
Checked By:	

Casing

Stabilization

Time

Groundwater Readings

Depth

NA

Boring Co.	GZA GeoEnvir	onmental, In	c.		Casing	Sampler		
Foreman .	A. Augustine			Туре	HSA	S.S.	Date	Time
GZA Rep.	J. White			1,D./O.D.	2-1/4"	2" O.D.	2/17/99	830
Date Start	2/17/99	Date End	2/17/99	Hammer Wt.		140 lb.		
Location	See plan			Hammer Fall		30"		
G.S. Elevation		Datum		Other				

	Sample Information							Equipment Installed	
Depth	No.	Pen./ Rec.	Depth (ft)	Blows/6"	Field Test Data	Sample Description & Classification	Straium Description	Remarks	
	S-1	18/12	0.5-2.0	5-6		S-1: Medium dense, brown,	6"		
l				16	70	SILT, little fine Sand, trace	CONCRETE		
	S-2	24/12	2-4	13-7		fine Gravel			NO EQUIPMENT
				10-10	178	S-2: Medium dense, brown,			INSTALLED
5	S-3	24/20	4-6	5-3		fine to medium SAND, trace	4.0'		
				4-5	153	fine Gravel, little Silt	SILT		
	S-4	24/20	6-8	11-22		S-3: Loose, light brown SILT,			
				27-24	14	trace fine Sand	6.0'		
	S-5	24/16	8-10	5-17		S-4: Dense, brown, fine to		1	
10				22-24	6	coarse SAND, little, fine	FINE TO	1	
	S-6	24/18	10-12	8-14		Gravel, trace Silt	COARSE		
				16-22	6	S-5: Dense, brown, fine to	SAND		
	S-7	24/17	12-14	15-16		coarse SAND, some fine		l	
				18-19	1	Gravel, trace Silt			
15						S-6: Dense, brown, fine to			
						coarse SAND, some fine	14.0'	l	
						Gravel, trace Silt	END OF	l	
						S-7: Dense, brown, fine to	EXPLORATION	1	
						coarse SAND, some fine		l	
20						Gravel, trace Silt			
								l	
25									
								I	

Soil samples field screened with a 11.8 eV ThermoEnvironmental Instruments Model 580B organic vapor meter (OVM) or HNu Model Pl-101 photoionization detector (PID). OVM or PID values represent meter response in parts per million (ppm) relative to a benzene in air and above background readings. "ND" stands for None Detected above background.

Samples moist below 2 feet below grade.

30

R E

M

A R K S

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Engineers and Scientists

27 Nack Road

Vernon, Connecticut 06066

(860) 875-7655

#### **40 VOICE ROAD** CARLE PLACE LONG ISLAND, NEW YORK

Boring No.:	SB-6
Page:	1 of 1
File No.:	62625/42197
Checked By:	

Time

Groundwater Readings Stabilization GZA GeoEnvironmental, Inc. Casing <u>Sampler</u> Boring Co. **HSA** S.S. Date Time Depth Casing Foreman A. Augustine Туре 2/17/99 2" O.D. 1040 GZA Rep. J. White I.D./O.D. 2-1/4" NA 140 lb. 2/17/99 Hammer Wt. 2/17/99 Date End Date Start 30\* Hammer Fall Location See plan Datum Other G.S. Elevation

		S	ample li	formation					Equipment installed
Oepth	ź	Pen./ Rec.	Depth (8)	filows/6"	Field Test	Sample Description & Classification	Stratum Description	Kemarks	
***************************************	S-1		0.5-2.0			S-1: Medium dense, brown,	6" CONCRETE		
				16	1	fine to medium SAND, some	FILL		
	S-2	24/12	2-4	15-12		Silt	SAND		NO EQUIPMENT
				9-8	ND	S-2: Medium dense, brown,	,		INSTALLED
. 5	S-3	24/14	4-6	4-4		fine to medium SAND, some	4.0'		
				6-8	7	fine Gravel, trace Silt	SILT		
	S-4	24/18	8-10	10-11		S-3: Loose, brown hack SILT,			
				17-16	6	trace fine Sand	6.0'		
	S-5	24/18	8-10	12-12		S-4: Medium, dense, fine to			
10				20-17	4	medium SAND, little fine	FINE TO		
	S-6	24/18	10-12	6-12		Gravel, trace Silt	COARSE		
				14-19	7	S-5: Dense, brown, fine to	SAND		
	S-7	24/22	12-14	16-16		coarse SAND, little fine	ļ		
				19-16	2	Gravel, trace Silt			
15						S-6: Medium dense, brown,			
l						fine to coarse SAND, little	14.0'		
						Gravel, trace Silt	END OF EXPLORATION		
						S-7: Medium dense, brown, fine to coarse SAND, little	EAPLORATION		
						fine Gravel, trace Silt			
20						illie Graver, trace Sitt			
]	_								
25									•
						1			
									·
30									·

Soil samples field screened with a 10.6 eV ThermoEnvironmental Instruments Model 580B organic vapor meter (OVM) or HNu Model PI-101 photoionization detector (PID). OVM or PID values represent meter response in parts per million (ppm) relative to a benzene in air and above background readings. "ND" stands for None Detected above background.

Samples moist below 2 feet below grade.

R

E

M

A R K



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-7

Project Name	& Location				Project Number	Date & Time Started:	11/02/00 @10:10	
	n and H	offman				Date & Time Completed:	11/02/00 @11:30	
Drilling Comp					Foreman	Sampler(s)	Sampler Hammer	Drop
	Vell and I	Pump			Charlie Blumberg		140 lbs	30inches
Drilling Equip					Method	Elevation & Datum	Completion Depth	Rock Depth
F-10 Di	rili Kig				H.S.A.  Core Barrel(s)	Geologist(s)	8 ft	
	1.25 inch				1-3/8 inch	Michael Mendes		
DEPTH		SAMPLI	ES					
(ft below grade)	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts	SOIL DES	SCRIPTION	REM	MARKS
- B,	LOCATION	, ,	(FF)		SURFACE DESCRIPTION:			GC Results
	Loading F	Bay area (a	sphalt)					
	Douting 1	July useu (us	0.8	I	Brown top soil with stones. Sil	ty sand some gravel	SB-7 (0-1)	0.0
					(fill material)			
L 1								
			1.5		Brown top soil with stones and	gravel. Silty sand with	SB-7(1-2)	19.1
					some gravel.(fill material)			
_ 2			2.4		Brown top soil with gravely san	ad. Some brick frags.	SB-7(2-3)	82.8
					(fill material)			
			2.6				GD 7/2 A)	1510
			3.6		Brown top soil with gravel sand (fill material)	i, with brick fragments.	SB-7(3-4)	154.8
_ 4								
4			3.0		Brown clayey silt some sand an and natural deposits.	d gravel, fill material	SB-7(4-5)	257.7
_ 5			5.4		Brown clayey silt moderate moi		Sb-7(5-6)	144.9
					gravel present. Fill material and	d native.		
<del>-</del> 6			4.1		Dark Brown clayey silt, with tra	ace sand and gravel.	SB-7(6-7)	95.0
	_	_						
7	_		6.6		Brown medium and coarse sand sorted, native material.	and gravel, poorly	SB-7(7-8)	7.4
<b>–</b> 8 .								_
├ ·								
]								
<u> </u>	<u></u>							



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-8

Project Name	& Location		_		Project Number	Date & Time Started:	11/02/00 @10:10	
Johnso	n and H	offman				Date & Time Completed:	10/31/00@12:00	
Drilling Com					Foreman	Sampler(s)	Sampler Hammer	Drop
Delta V	Vell and I	Pump			Charlie Blumberg		140 lbs	30inches
Drilling Equi					Method	Elevation & Datum	Completion Depth	Rock Depth
F-10 D	rill Kig				H.S.A.  Core Barrel(s)	Geologist(s)	8 ft	
HSA 4	4.25 inch				1-3/8 inch	Michael Mendes		
DEPTH		SAMPL	ES.		l commen	1721011001 172011000		
DELTIII		SAMI L	FID/	Γ	SOIL DES	SCRIPTION	REN	MARKS
(ft below	Sample	Recovery	PID	Blow		70111		
grade)	Number	(feet)	(ppm)	Counts				
1	LOCATION				SURFACE DESCRIPTION:			GC Results
	Loading F	Bay area (a						
Ĭ			0.0		Brown silty sand with gravel, n	o odors, no staining	SB-8(0-1)	123.3
		_			_			
<b>⊢</b> ¹								
- 2			1.1		Brown silty sand some gravel, i	o staining no odore	SB-8(2-3)	31.4
1			1.1		Brown sinty sails some graver, i	to statining no odors.	3B-8(2-3)	31.4
l								
1	1							
	<del> </del>			<u> </u>				
1								
<b>—</b> 4			28.5		Brown Clayey silt some sand a	nd gravel	SB-8(4-5)	1145.1
ľ			2010		and natural deposits.	<b>8</b>		
1								
l _								
<b>–</b> 5			40.5		Light brown silty fine sand trac	e gravel.	SB-8(5-6)	1225.2
1					fine sandy silt.			
<b>–</b> 6								
			19.7		Brown silty sand and gravel, Da	arker Brown Top soil.	SB-8(6-7)	444.2
<b>-</b> 7	$\vdash$		4.0	-	D	1 1	GD 0/7 0)	- 10.5
, i			4.0		Brown coarse to gravely sand, 1	no odors detected.	SB-8(7-8)	18.5
_								
<u> </u>	-		_					
<b>—</b>								
4								



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-9

Project Name					Project Number	Date & Time Started:	11/02/00 @13:30	
	n and H	offman				Date & Time Completed:	11/02/00 @14:50	
Drilling Com					Foreman	Sampler(s)	Sampler Hammer	Drop
	Vell and I	Pump			Charlie Blumberg		140 lbs	30inches
Drilling Equip					Method H.S.A.	Elevation & Datum	Completion Depth	Rock Depth
F-10 D	nii Kig				Core Barrel(s)	Geologist(s)	8 ft	
	4.25 inch				1-3/8 inch	Michael Mendes		
DEPTH	,	SAMPLI	ES		1			
<u> </u>		07111112	FID/		SOIL DES	SCRIPTION	REN	1ARKS
(ft below	Sample	Recovery	PID	Blow				
grade)	Number	(feet)	(ppm)	Counts	CATABLY CALL DESCENTATION			
	LOCATION				SURFACE DESCRIPTION:			GC Results
<b>⊢</b> 0	Loading B	lay area (a						
			156.0		Brown top soil/fill material. Sil	ty fine sand and some	SB-9(0-1)	2685
	$\vdash$				gravel.			-
<b>⊢</b> ¹			96.4		D 6 4		CD 0/1 2)	1100.0
			86.4		Brown fine to medium sand sor	ne gravel and coarse	SB-9(1-2)	1188.8
					sand.		<u></u>	
<b>—</b> 2			131.0		Brown silty sand some gravel, r	o staining no odors	SB-9(2-4)	1940.7
J			131.0		brown sifty saild some graver, i	io stanning no odors.	SD-9(2-4)	1940.7
l					1			-
1								
_ 3	$\vdash$							
<b>-</b> 4			84.1		Dark brown top soil, fine to me	dium sand with some	SB-9(4-5)	2765.4
			04.1		gravel and pebbles, no visible st		SB 7(4-3)	2703.4
					graver and perones, no visitore s	mining detected.		
<b>—</b> 5	$\Box$		29.3		Brown medium to coarse sand v	with some gravel and	SB-9(5-6)	172.7
ł					trace fines. No visible staining.			
L 6								
			57.0		Brown medium to coarse sand,	with some gravel	SB-9(6-7)	921.4
					_			
<b>⊢</b> 7	$\vdash$							
<b>'</b>			90.1		Fine to medium grained sand w	ith some gravel.	SB-9(7-8)	817.9
8	$\vdash \vdash \vdash$							
<u> </u>	$\vdash$				-			_
7								
			'				•	



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-10

		& Location	. ~~			Project Number	Date & Time Started:	11/02/00 @17:10	
		n and He	offman				Date & Time Completed:	11/02/00 @17:40	
	g Comp Ita W	ell and F	ump			Foreman Charlie Blumberg	Sampler(s)	Sampler Hammer 140 lbs	Drop 30inches
	g Equip					Method	Elevation & Datum	Completion Depth	Rock Depth
		ill Rig				H.S.A.		6 ft.	
Bit Siz		05:1				Core Barrel(s)	Geologist(s)	-	
_		.25 inch	G 4 3 4757	T.C.		1-3/8 inch	Michael Mendes		
DE	PTH		SAMPL	т- —	ı	COIL DEG	SCRIPTION	DE	MADEC
(ft l	below	Sample	Recovery	FID/ PID	Blow	SOIL DES	CRIPTION	, RE	MARKS
gr	ade)	Number	(feet)	(ppm)	Counts				
1		LOCATION				SURFACE DESCRIPTION:			GC Results
$\vdash$	0 .	Loading B	ay area (a		Γ				
ı				0.0		Brown silty medium to coarse s	and fill material, no	SB-10(0-2)	2463.2
1			_			odors.			
ı	1								
$\vdash$	1 .								
ı									
L	, ,								
ı	2 .			131.0		Brown silty sand and gravel, no	visible staining, slight	SB-10(2-3)	1552.8
						odor, stones up to one inch in si	ze.	_	
_`_	3 .			1062.0		D 15 1 1 1		GD 10/0 //	
1				1062.0		Brown silty sand and gravel, no slight solvent odor.	visible staining	SB-10(3-4)	7477.3
1						siight solvent odor.			
1									
$\vdash$	4 ·			2000.0		Fine sandy silt, brown in color,	slight solvent odor	SB-10(4-5)	65,126.30
1						detected.			
ı			_						
L	5 -								
ı	J			219.0		Clayey silt some fine sand, no o		SB-10(5-6)	2264.2
ı						is high. Very silty, mostly claye	y fines.		
$\vdash$	6				-	No Sample			_
$\vdash$	7								
1	'								
_	8								
1									
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<u> </u>	1								



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-11

Project Na	me & Location				Project Number	Date & Time Started:	11/02/00 @18:06	_
Johns	son and H	offman				Date & Time Completed:	11/02/00 @19:30	
Drilling Co					Foreman	Sampler(s)	Sampler Hammer	Drop
	Well and	Pump			Charlie Blumberg		140 lbs	30inches
Drilling Ex					Method	Elevation & Datum	Completion Depth	Rock Depth
	Drill Rig				H.S.A.		6 ft.	
Bit Size(s)					Core Barrel(s)	Geologist(s)	<u> </u>	
	4.25 inch				1-3/8 inch	Michael Mendes		
			<b>.</b>		1 3/6 Men	THEMACH THEMACE		
DEPT	<u>н</u>	SAMPL	ES			CDIPPEON		NA PRO
			FID/		SOIL DES	SCRIPTION	RE	MARKS
(ft belo grade)		Recovery (feet)	PID	Blow Counts				
grade	LOCATION		(ppm)	Counts	SURFACE DESCRIPTION:			GC Results
	1							OC Results
⊢ 0	Loading l	Вау агеа (а	sphalt)					
1 "			45.9		Coarse gravely sand some fines	and silts. No staining	SB-11(0-1)	2645.8
					appears to be fill material.			
					-			
<b>⊢</b> ¹	-		100.0		C		CD 11/1 2)	953.4
			128.0		Coarse gravely sand, some fine		SB-11(1-2)	953.4
					No staining, slight solvent odor			
<b>—</b> 2			33.0	<u> </u>	Silty fine to medium sand with	some gravel, no	SB-11(2-3)	469.5
1			33.0		1 -	oome graves, no	(,	
1					staining.			
1								
<b>'</b> _ 2								
<b>—</b> 3			46.1		Silty soft fine to medium sand t	race gravel and trace	SB-11(3-4)	587.3
					one inch stones.			
<b>—</b> 4	<u> </u>						an 1111 6	
1			14.1		Medium to coarse sand, some f	ines, and some gravel	SB-11(4-6)	16.3
					No odors detected			
<b>—</b> 5		<b></b>	-	<u> </u>				
<b>⊢</b> 6								
					Refusal encountered.			
<b>—</b> 7								
					_			
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$\vdash$					_			
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520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-12

						<u> </u>	11/02/02 000 24	
	ne & Location  on and H	ffman			Project Number	Date & Time Started:	11/03/00 @09:34	
Drilling Cor		)11 III (A)11			Foreman	Date & Time Completed: Sampler(s)	11/03/00 @10:15 Sampler Hammer	Drop
	Well and I	Pump			Charlie Blumberg		140 lbs	30inches
Drilling Equ	ipment				Method	Elevation & Datum	Completion Depth	Rock Depth
	rill Rig				H.S.A.		8 ft.	
Bit Size(s)	4.25 inch				Core Barrel(s) 1-3/8 inch	Geologist(s)		
	_	CANADIA	T0		1-5/8 IIICII	Michael Mendes		_
DEPTH	<u> </u>	SAMPLI		Γ	SOIL DES	CRIPTION	DE	MARKS
(ft below	Sample	Recovery	FID/ PID	Blow	SOIL DES	CKII HOIV	, Ru	WAKKS
grade)	Number	(feet)	(ppm)	Counts				
	LOCATION				SURFACE DESCRIPTION:			GC Results
— o	Loading E	ау агеа (а					GD 14(0.4)	
			3.8		Brown silty sand with gravel an	d top soil.	SB-12(0-1)	2.9
			_					
<b>一</b> '			4.6		Fine sandy silt, some gravel bro	wn in color.	SB-12(1-2)	6.4
L								
_ 2					No Recovery		SB-12(2-4)	
1								
			_					
1 .								
- 4			5.1		Medium to coarse sand, brown	sand some iron	SB-12(4-6)	56.8
					staining			
<b>-</b> 5								
<b>—</b> 6			7.1		Loose coarse to gravely sand wi	th some iron staining.	SB-12(6-8)	4.9
<b>—</b> 7								
′								
						_		
8			_			<del>_</del> _		
L								
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520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-13

	LAT				DOMINO	LOG		
Project Name	& Location				Project Number	Date & Time Started:	11/03/00 @11:00	
Johnso	n and H	offman				Date & Time Completed:	11/03/00 @11:35	
Drilling Comp	pany				Foreman	Sampler(s)	Sampler Hammer	Drop
	Vell and I	Pump			Charlie Blumberg		140 lbs	_30inches
Drilling Equip					Method	Elevation & Datum	Completion Depth	Rock Depth
F-10 D	rill Rig				H.S.A.		8 ft	
Bit Size(s)	1 25 imah				Core Barrel(s) 1-3/8 inch	Geologist(s) Michael Mendes		
	4.25 inch	0 4 3 5 DY	20		1-5/6 men	Michael Mendes		_
DEPTH		SAMPL			COIL DEC	CDIDTION	Dr	CMADIC
(ft below	Sample	Recovery	FID/ PID	Blow	SOIL DES	CRIPTION	K	EMARKS
grade)	Number	(feet)	(ppm)	Counts				
	LOCATION	:			SURFACE DESCRIPTION:			GC Results
	Loading E	Bay area (a	isphalt)					
⊢ 0.		,	113.0		Silty fine medium and coarse sai	nd (top soil) strong	SB-13(0-1)	1873.9
					odors detected by olfactory.		, ,	
					, ,			_
1								
Γ'			1926.0		Silty sand, with gravel and stone	s, strong solvent	SB-13(1-2)	7167.3
1					odors detected by olfactory.			
<b>—</b> 2			>2000		Sandy silt/top soil with some gra	vel and pebbles	SB-13(2-4)	105968.6
			- 2000		l and the point with the grade			
			<del>                                     </del>					
1								
_ 3	<del></del>		<del> </del>					
1								
1								
4			>2000		Brown sand silt/top soil with sor	ne gravel stron	SB-13(4-5)	91129.6
			/2000		odors detected.	ne graver, suon	02 13(4 3)	71127.0
		-			Odors detected.			
1								
<b>–</b> 5	$\vdash$		>2000		Light brown silts some fine sand	DUP110300	SB-13(5-6)	68,647.40
			2000		time of 0800, strong odor detect		22 12(5 5)	50,5
				_	mile of 5000, salang odor detect	3, 5		
6	<b></b>		437.0		Coarse gravely sand and gravel,	trace fines. Slight	SB-13(6-8)	23,945.80
					odor detected.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		_	_					
1								
8					No Recovery		SB-13(8-10)	
					, ·		, ,	
10								
10					No Sample collected		SB-13(10-12)	
<b>⊢</b> 12			26.7		Brown coarse to gravely sand wi	th trace fines.	SB-13(12-14)	65.7
<u>~</u>								
14								
^ .								



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-14

Project Name	& Location n and H	offman			Project Number	Date & Time Started: Date & Time Completed:	11/03/00 @13:15 11/03/00 @14:00	
Drilling Comp		OIIII			Foreman	Sampler(s)	Sampler Hammer	Drop
Delta W	ell and l	Pump			Charlie Blumberg	·	140 lbs	30inches
Drilling Equip F-10 Dr					H.S.A.	Elevation & Datum	Completion Depth 8 ft.	Rock Depth
Bit Size(s) H.S.A 4	.25 inch				Core Barrel(s) 1-3/8 inch	Geologist(s) Michael Mendes		
<u>DEPTH</u>		SAMPLI	ES					
(ft below grade)	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts	SOIL DES	SCRIPTION	REN	MARKS
- B	LOCATION	, ,	41-7		SURFACE DESCRIPTION:	_		GC Results
	Loading F	Bay area (as	sphalt)					
— o	2.6 Top soil/Fill material, silty odors detected by olfactory					sand trace gravel	SB-14(0-1)	3.9
1 .			4.1		Top soil/fill material silty sand	with some gravel.	SB-14(1-2)	15.2
					odors detected by olfactory.			
<del></del> 2			10.1	_	Dark brown sand silt, top soil fino visible staining.	ll material, no odors	SB-14(2-4)	274.8
— 3 ·								
					•			
<del></del>		-	16.5		Top/soil fill material, fine silty and pebbles.	sand, with some gravel	SB-14(4-6)	812.2
<u> </u>		_						
<del>-</del> 6			4.1	_	light brown fine sandy silt, no o	dors trace gravel.	SB-14(6-8)	57.4
<del>-</del> 7								
8								
_ 。								
	Page	1	of	1	Signature:		Date:	



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-15

I Tak		& Location				Project Number	Date & Time Started:	12/19/01 @09:50
_		n and Ho	ffman				Date & Time Completed:	12/19/01 @10:40
	g Comp					Foreman	Sampler(s)	Sampler Hammer Drop
		ell and P	ump			Jim Pederson		Geoprobe
	Equip					Method	Elevation & Datum	Completion Depth Rock Depth
	prol	be				Geoprobe Macro Cores		10 Ft
Bit Siz						Core Barrel(s) 4'X2"	Geologist(s) Michael Mendes	
_	РТН		SAMPLE	20			TVIICHACI IVICHACS	
DE	<u>r 111</u>	<u> </u>	SAMITLE	FID/		SOIL DESC	PIPTION	REMARKS
(ft b	ælow	Sample	Recovery	PID	Blow	JOH DESC	an Hor	ICENT HOLS
gra	ade)	Number	(feet)	(ppm)	Counts			
		LOCATION:				SURFACE DESCRIPTION:		
L	0	15ft south	of SB-9	_				Samples sent to STL, CT
l	U				NA	Brownish Black topsoil with med	ium sand and	SB-15(0'-2')@10:07
l				0.0		pebbles	_	
l								
$\vdash$	1.							
I					NA	Medium to coarse sand with fines	dry sand with	
1				0.8		some gravel, silt and clays.		
<u> </u>	2				NY .	M. C	1 10	
l	-				NA	Medium to coarse sand with fines	dry sand with	
[						some gravel, silt and clays.		
l								
	3				27.4	N. C	4	
1					NA	Medium to coarse sand with fines	dry sand with	
l				_		some gravel, silt and clays.		
l								
<u> </u>	4				NIA	Vallandah Danna fina to madinas		CD 15(4) (1)@10.17
l					NA	Yellowish Brown fine to medium	sand, some coarse	SB-15(4'-6')@10:17
I						sand and gravel, no odors.	<u>_</u>	<del></del>
I								
	5			16.5	NA	Brown medium to coarse sand an	d gravel trace fines	
					NA	Diown medium to coarse sailu am	a graver, duce miles.	
Į								
	6				NA	Brown medium to coarse sand and	d gravel, trace fines.	
1								
	, l							
	7				NA	Brown medium to coarse sand and	d gravel, trace fines.	
_	8							
					NA	Reddish brown iron stained med t	o coarse sand and	SB-15(8'-10')@10:32
1						gravel, no odors		
$\vdash$	9			2.8				
					NA	Reddish brown iron stained med t	o coarse sand and	
7	}			ļ		gravel, no odors.		
	ا ۱							
<u> </u>	10							



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-16

Project Name	& Location				Project Number	Date & Time Started:	12/19/01 @10:45
	n and Ho	ffman				Date & Time Completed:	12/19/01 @11:15
Drilling Comp					Foreman	Sampler(s)	Sampler Hammer Drop
	ell and P	ump			Jim Pederson		Geoprobe
Drilling Equip					Method	Elevation & Datum	Completion Depth Rock Depth
Geoprol	be				Geoprobe Macro Cores	Cookerings	10 Ft
Bit Size(s) NA					Core Barrel(s) 4'X2"	Geologist(s) Michael Mendes	
DEPTH		SAMPLI	66		772	THE ITEM TO INCIDENT	
DEFIN		SAMI LI	FID/		SOIL DESC	PIPTION	REMARKS
(ft below	Sample	Recovery	PID	Blow		on Hon	KENT KKIS
grade)	Number	(feet)	(ppm)	Counts			
	LOCATION:				SURFACE DESCRIPTION:		
L 0	15ft west o	of SB-9					Samples sent to STL, CT
ľ				NA	Brown dark brown topsoil with n	ninimal sands and	SB-16(0'-2')@10:47
					gravel		DUP121901@0800
1 .			703.0		Dedication 1 4 1 22	dinintoC	
				NA	Reddish brown hard clayey silt gr	rading into a fine	
					sand and silt.		
<u> </u>	<del>-  </del>			NA	Tan brown fine to medium sand,	trace coarse sands	
				INA	trace gravels, some rounded pebb		
1					trace gravers, some rounded peop	ics.	
_ 3				NA	Tan brown fine to medium sand,	trace coarse sands	-
				1471	trace gravels, some rounded pebb		
					g,	<u> </u>	
<b>-</b> 4 1				NA	Tan brown fine to medium sand,	trace coarse sands,	SB-16(4'-6')@10:56
					trace gravels, some rounded pebb		
<b>L</b> _ ]			145.0				
5			143.0	NA	Medium to coarse sand and grave	els, some fines, and	
]					some pebbles.		
F 6							
				NA	Brown medium to coarse sand an	d gravel, trace fines.	
7				NA	Brown medium to coarse sand an	d gravel trace fines	
				IVA	DIOWII IIICUIUIII IO COAISC SAIIU AII	u graver, nace mies.	
L 8 1							
┌ ° t				NA	Reddish brown med to coarse sar	nd with gravel	SB-16(8'-10')@11:14
					trace fines.	<b>5</b>	,
- 9			7.8				
<b>-</b> 9			7.8	NA	Reddish brown med to coarse san	d and gravel	
<b>7</b>					trace fines.		
[							
10							



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-17

Project Name					Project Number	Date & Time Started:	12/19/01 @12:00
Johnson and Hoffman						Date & Time Completed:	12/19/01 @12:53
Drilling Comp					Foreman	Sampler(s)	Sampler Hammer Drop
	Vell and I	Pump			Jim Pederson		Geoprobe
Drilling Equip					Method	Elevation & Datum	Completion Depth Rock Depth
Geopro  Bit Size(s)	De				Geoprobe Macro Cores  Core Barrel(s)	Coologist(s)	10 Ft
NA					Core Barrel(s) 4'X2"	Geologist(s) Michael Mendes	
DEPTH		SAMPLI	FS		. 712	1.1.2.011.001 1.1.011.000	
DEPTH SAMPLES				SOIL DESCRIPTION		REMARKS	
(ft below	Sample	Recovery	PID/	Blow			KLWIKKS
grade)	grade) Number (feet) (ppm) Counts						
LOCATION:					SURFACE DESCRIPTION:		
$\vdash$ 0	15ft east of SB-9						Samples sent to STL, CT
<b>1</b>				NA	Brown to dark brown top soil wit	h fine sands.	SB-17(0'-2')@12:04
L 1 .			3.1		h		
				NA	Brown clayey silts with gravels grading into high		
					gravel content with fine sands.		
- 2 ·				27.4	D	d amount middle of	
	NA NA		l NA	Brown medium to coarse sand and gravel, with some			
					fines and trace pebbles.		
3 .				NA	Brown medium to occess cand :-	d gravel with some	
				NA	Brown medium to coarse sand and gravel, with some		
					fines and trace pebbles.		
<b>├</b> 4 ·				NA	Brown medium to coarse sand an	d gravel with some	SB-17(4'-6')@12:38 (MS/MSD)
				NA	fines and trace pebbles.	u graver, with some	3D-17(4 -0 )@12:30 (M3/M3D)
					innes and nace peoples.		-
<b>⊢</b> 5 ·			1.9	NA	Brown medium to coarse sand an	d gravel with some	
					fines and trace gravel.	- 6-4-61 bonne	
<b>—</b> 6				NA	Brown medium to coarse sand an	d gravel, trace fines.	
L ,							
7				NA	Brown medium to coarse sand an	d gravel, trace fines.	
8 .							
				NA	Brown fine, medium and coarse g	rained sand with	SB-17(8'-10')@12:53
					gravel and no odors.		
2.5							
_				NA	Brown fine, medium and coarse g	rained sand with	
					gravel, no odors.		
10							
F 10 1							



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-18

Project Name					Project Number	Date & Time Started:	12/19/01 @13:40	
Johnson and Hoffman						Date & Time Completed:	12/19/01 @14:07	
Drilling Company					Foreman	Sampler(s)	Sampler Hammer	Drop
Delta Well and Pump  Drilling Equipment					Jim Pederson  Method	Elevation & Datum	Geoprobe Completion Depth	Rock Depth
Geoprobe					Geoprobe Macro Cores	Dictation & Datum	10 Ft	коск Беріп
Bit Size(s)		_			Core Barrel(s)	Geologist(s)		
NA					4'X2"	Michael Mendes		
DEPTH		SAMPL	ES					
			FID/		SOIL DES	CRIPTION	RE	MARKS
(ft below Sample Recovery grade) Number (feet)		PID (ppm)	Blow Counts					
grade)	LOCATION		фи	004410	SURFACE DESCRIPTION:			
	15ft north of SB-9						Samples sent to STL	. CT
0	NA Brown moist clayey silty fine sand grading into med sand.		SB-18(0'-2')@13:40					
L 1.			7.6					
			7.0	NA	Very fine to fine sand and silt gravel content with fine sands.			
— <sub>2</sub> ·				NA	Brown medium to coarse sand ar fines and trace pebbles.	nd gravel, with some		
l								
3				NA	Brown medium to coarse sand ar fines and trace pebbles.	nd gravel, with some		
<b>-</b> 4 ·				NA	Brown to reddish brown, coarse fines.	gravely sand, trace	SB-18(4'-6')@13:50	
			2.8					
_ 5	NA Brown to reddish brown, coarse angular pebbles.		gravely sand, with					
<b>–</b> 6				NA	Brown medium to coarse sand ar	nd gravel, trace fines.		
<b>-</b> 7 ·								
,				NA	Brown medium to coarse sand at	nd gravel, trace fines.		
8 .								
				NA	Brown to reddish brown fine to r some thin iron stained layers, coa		SB-18(8'-10')@14:0	7
_ , ,			1.4					
<b>r</b>				NA	Brown to reddish brown fine to r some thin iron stained layers, coa			
10								

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 1
 Signature:
 Date:



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-19

Project Name					Project Number	Date & Time Started:	12/19/01 @15:11
Johnson and Hoffman						Date & Time Completed:	12/19/01 @15:25
Drilling Comp					Foreman	Sampler(s)	Sampler Hammer Drop
	ell and I	<sup>2</sup> ump			Jim Pederson		Geoprobe
Drilling Equip					Method	Elevation & Datum	Completion Depth Rock Depth
Geoprol	be				Geoprobe Macro Cores	0.1.10	10 Ft
Bit Size(s)					Core Barrel(s) 4'X2"	Geologist(s) Michael Mendes	
NA					4 A.Z	Witchael Wiendes	<del></del>
DEPTH SAMPLES					SOIL DESCRIPTION		DEMARKS
(ft below Sample Recovery PID Blow grade) Number (feet) (ppm) Counts		REMARKS					
grade)	Number	(feet): Indoor so	(ppm)	Counts	SURFACE DESCRIPTION:		
	i		_				G 1 COTT COTT
— o ·	South wall near garage bay door				D		Samples sent to STL, CT
				NA	Brown fine med and coarse sand with pebbles.		SB-19(0'-2')@15:11
					Very compacted.		
L 1 .			4.2				
NA NA		Brown fine med and coarse sand with pebbles.					
					Very compacted.		
— <sub>2</sub> ·				NA	Brown medium to coarse sand an	d gravel, with some	
				***	fines.	o graver, with some	
` 3 ·		_		NA	Decum medium to come cond on	d annual with some	
				NA	Brown medium to coarse sand an fines.	d graver, with some	
,							
— 4 ·				NA	Brown medium to coarse sand an	d gravel, dry.	SB-19(4'-6')@15:28
				. —		_	
— 5 ·		_	0.7	NA	Brown medium to coarse sand an	d gravel, dry.	
			•	_			
— 6 ·				NA	Brown medium to coarse sand an	d gravel, dry.	
			_				
7				NA	Brown medium to coarse sand an	d gravel, trace fines.	
_ 8 .				NA	Brown medium to coarse sand an rounded pebbles, very compacted		SB-19(8'-10')@15:27
L 9			0.7	NA	Brown medium to coarse sand and	d gravel and	
<b>*</b>				11/1	rounded pebbles, very compacted		
10							
10 ]							

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 1
 Signature:
 Date:



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-20

Project Name	& Location				Project Number	Date & Time Started:	12/20/01 @10:34		
	n and Ho	ffman				Date & Time Completed:	12/20/01 @11:42		
Drilling Com					Foreman	Sampler(s)	Sampler Hammer	Drop	
Delta V	Vell and P	ump			Mike Palagrino  Method	Elevation & Datum	150 lb  Completion Depth	20" Rock Depth	
Tripod	pitient			Trit	ood with split spoons	Elevation & Datum	10 Ft	NA	
Bit Size(s)				1111	Core Barrel(s)	Geologist(s)			
NA					2'X2"	Michael Mendes			
DEPTH		SAMPLI	ES						
	1	_	FID/		SOIL DES	SCRIPTION	REMARKS		
(ft below grade)	Sample Number	Recovery (feet)	PID (ppm)	Blow Counts					
	LOCATION:	Indoor so	oil boring		SURFACE DESCRIPTION:				
	South wall	near gara	ge bay doo	or			Samples sent to STL,	CT	
	NA		NA	Very compacted, brown silty so gravely sand.	il, with stones and	SB-20(0'-2')@10:34			
l .									
- 1		_	23.3 NA		Very compacted, brown silty so gravely sand.	il, with stones and			
								_	
<b>-</b> 2				NA	Brown gravely coarse sand with rounded stones.	fines and large			
			4.7						
3			4.7	NA	Brown gravely coarse sand with rounded stones.	fines and large			
_ 4							CB 20/41 (1) @11.02		
				NA	Brown, dry, coarse sand and grapresent.	ivel, trace fines	SB-20(4'-6')@11:03		
_ 5			5.2						
				NA	Brown, dry, coarse sand and grapresent.	vel, trace fines			
6				NA	Coarse gravely sand, trace fines				
_ 7		_	1.0		_				
				NA	Coarse gravely sand, trace fines	· 			
_ 8 .									
				NA	Light tan brown, med to coarse very compacted.	sand and gravel	SB-20(8'-10')@11:42		
'- 9 · [			3.1	NA	Brown medium to coarse sand a rounded pebbles, very compacte				
_ 10									

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 Signature:
 Date:



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-21

Project Name	& Location				Project Number	Date & Time Started:	12/20/01 @12:50	
	n and H	offman				Date & Time Completed:	12/20/01 @12:50	
Drilling Com		, <u> </u>			Foreman	Sampler(s)	Sampler Hammer	Drop
Delta V	Vell and F	'ump			Mike Palagrino  Method	Ejevation & Datum	150 lb  Completion Depth	20" Rock Depth
Tripod	pment			Trir	ood with split spoons	Elevation & Datum	10 Ft	NA
Bit Size(s)				1114	Core Barrel(s)	Geologist(s)	1011	1471
NA					2'X2"	Michael Mendes		
DEPTH		SAMPLI	ES					
	l l	_	FID/		SOIL DES	SCRIPTION	REI	MARKS
(ft below grade)	Sample Number	Recovery (feet)	PID (ppm)	Blow Counts				
	LOCATION	: Indoor so	oil boring		SURFACE DESCRIPTION:			
	South wal	l near gara	ge bay doo	or			Samples sent to STL,	<u>CT</u>
				NA	Brown silty fine sand, grading sand.	into a coarse gravely	SB-21(0'-2')@12:56	
_ 1	$\vdash$		3.4	<b></b>	Daniel Carrett C	·		
				NA	Brown silty fine sand, grading	into a coarse gravely		
	$\vdash$				sand.			
_ 2	2				Brown silty sand, fine to medic	ım sand with gravel.		
1								
3	$\vdash$		0.0	<b></b>	Describerant Control			_
			-	NA	Brown silty sand, fine to mediu	im sand with gravel.		
F 4	$\Box$			NA	Brown fine to medium sand wi	th some to trace	SB-21(4'-6')@13:15	(MS/MSD)
					coarse sand gravel.			
<u> </u>	<u> </u>		2.6		<b>D C</b>			_
				NA	Brown fine to medium sand wi	th some to trace		
					coarse sand gravel.			
F 6				NA	Brown fine to medium sand ve	ry comapacted, no	SB-21(6'-8')@14:06	
					odors detected by olfactory.			
7		_	0.7	NA	Brown fine to medium sand ve	ny comanacted no	-	
				ΝA	odors detected by olfactory. Re			
					on action by onactory. It		_	
8								
	$\vdash$							
<b>L</b> 9								
7								
10								
							<del>- 4</del>	



520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-22

Project Name					Project Number	Date & Time Started:	12/21/01 @08:00	
Johnson		offman				Date & Time Completed:	12/21/01 @08:34	
Drilling Comp					Foreman	Sampler(s)	Sampler Hammer Drop	
Delta W		Pump	_		Mike Palagrino		150 lb 20"	
Drilling Equip	ment			m :	Method	Elevation & Datum		Depth N. A
Tripod				Triţ	ood with split spoons  Core Barrel(s)	Geologist(s)	10 Ft	NA
Bit Size(s) NA					2'X2"	Michael Mendes		
DEPTH		SAMPLI	ES					
(ft below	Sample	Recovery	FID/ PID	Blow	SOIL DESC	CRIPTION	REMARKS	3
grade)	Number	(feet)	(ppm)	Counts	SURFACE DESCRIPTION:			
		: Indoor so			SURFACE DESCRIPTION:		l	
<b>⊢</b> ο ⋅	South wal	l near gara	ge bay doo				Samples sent to STL, CT	
Ů				NA	Brown silty fine sand, with some		SB-22(0'-2')@08:05	
					sand. No odors detected by olfac	tory.		
_ 1			2.6					
_ ^ 1			2.6	NA	Brown silty fine sand, with some	medium to coarse		
					sand. No odors detected by olfac	tory.		
	_							
— <sub>2</sub> ·		_		NA	Brown silty fine sand, with some	medium to coarse.		
<u> </u>			0.1	NA	Brown silty fine sand, with some	medium to coarse.		
								_
<u> </u>				NA	Brown fine med and coarse grain		SB-22(4'-6')@08:21	
		_			Very compacted, no odors detected	ed by olfactory.		
<u> </u>			1.2	NA	Brown fine med and coarse grain	ed sand with stones		
					Very compacted, no odors detect	ed by olfactory.		
<u> </u>				NA	Brown medium to coarse sand an	ud gravel with some	SB-22(6'-18')@08:34	
				ил	fines and stones. No odors detec	•	20)0000	
			,,					
7 .			1.1	NA	Brown medium to coarse sand an fines and stones. Refusal encoun			
8 .	_	_						
_ 9 ·			_					_
10								

Page	1	of	1	Signature:	Date:	
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520 Broad Hollow Road, Suite 210, Melville, New York 11747

**Boring Number** 

SB-23

•		& Location			Date & Time Started:	12/21/01 @09:35			
		n and H	offman				Date & Time Completed:	12/21/01 @10:18	
•	lling Comp					Foreman	Sampler(s)	Sampler Hammer	Drop
		ell and I	ump			Mike Palagrino	Election 6 December 1	150 lb	20"
	lling Equip 'ripod	ment			Tri-	Method bod with split spoons	Elevation & Datum	Completion Depth 10 Ft	Rock Depth NA
	Size(s)		_		111	Core Barrel(s)	Geologist(s)	1011	NA NA
	IA					2'X2"	Michael Mendes		
_	DEPTH		SAMPLI	ES					
				FID/		SOIL DES	CRIPTION	REN	<b>IARKS</b>
1	(ft below	Sample	Recovery	PID	Blow				
1-	grade)	Number	(feet): Indoor so	(ppm)	Counts	SURFACE DESCRIPTION:			
ı		l .		ge bay doo	NF			Samples sent to STL,	(Tr
$\vdash$	- 0 -	South wal	i near gara	ge bay doc	NA	Brown silty to clayey soil, fine t	o medium sand with	SB-23(0'-2')@09:35	
ı					IVA	some gravel.	o modium sand with	DUP122101@1200	
						B			
	1								
r	- 1 .			0.0	NA	Brown silty to clayey soil, fine t	o medium sand with		
						some gravel.			
Γ	2				NA	Brown silty fine sand, with trace	es of coarse sand and		
						gravel.			
1	. 3 !			0.0					
1	5			0.0	NA	Brown silty fine sand, with trace	es of coarse sand and		
				ļ		gravel.			
L	- 4			_					
	•				NA	Brown fine to med sand with so	SB-23(4'-6')@09:48		
						gravel, no odors detected by olfa	ictory.		
-	- 5 -			0.0	NA	Brown fine to med sand with so	me coarse cand and		
					NA	gravel, no odors detected by olfa			
						graver, no odors detected by one			
	- 6				NA	Brown fine to med sand and gra	vel, with trace silts.	SB-23(6'-18')@10:18	
L	. ,			0.0					
	7 :			0.0	NA	Brown fine to med sand and gra	vel, with trace silts.		
						Refusal encountered at 8 feet.			
L	. 8								
		_							
L	. 9								
7									
		_	-						
	10								

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520 Broad Hollow Road., Melville, New York 11747

Boring Number

SB-24

## **BORING LOG**

Project Name					Project Number	Date & Time Started:	8/16/02-0845	
	n & Hof	man_			R4906.00.01	Date & Time Completed:	8/16/02-1215	
Drilling Con Zebra I	npany Environn	nental			Foreman	Sampler(s)	Sampler Hammer	Drop
Drilling Equ			_	_	Method	Elevation & Datum	Completion Depth	Rock Depth
GeoPro	be							
Bit Size(s)					Core Barrel(s)	Geologist(s) Jessica Ferngren		
DEPTH		SAMPL	ES					
			FID/		SOIL DESCRIPTION		REM	ARKS
(ft below grade)	Sample Number	Recovery (feet)	PID (ppm)	Blow Counts				
	LOCATION	:			SURFACE DESCRIPTION:	Asphalt		
_ o	Traile	er Storage	Area					
ľ					3 inches asphalt			
					medium and coarse sand			
1			0.7		medium and coarse sand			
<b> </b>								
			160		medium and coarse sand			
		4.0			grading into medium and coa	arse sand some gravel		
<b>—</b> 2								
			56.8		medium and coarse sand som	ne gravel		
<b>_</b> 3			_					
1								
		31.6			medium and coarse sand som	ne gravel		
_ 4 .					medium and coarse sand som	no graval		
					medium and coarse said son	e graver		
			29.9					
<del>-</del> 5					rust colored coarse sand and	gravel		
		4.0	4.3					
<b>–</b> 6								
			8.2					
7		Ì						
			20.3					
_ 8								
					gravel with some medium and	d coarse sand		
			11.4	_				
<b>-</b> 9		ł						
10		3.0	4.5		coarse and medium sand			
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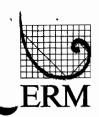
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Heugen

Date:

8/20/02 rev. 9/96 Boring logs081602.xls



520 Broad Hollow Road., Melville, New York 11747

**Boring Number** SB-24

#### **BORING LOG**

DEPTH		SAMPL	ES	_		
(ft below grade)	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
10					medium and coarse sand	
11			0			
- 11 -					medium and coarse sand	
- 12 -			0			
		_			END OF BORING	
- 13						
- 14 -		_				
- 15 <b>-</b>						
<b>-</b> 16 <b>-</b>						
				_		
- 17 -						
	-					
- 18						
- 19 <b>-</b>				_		
20						

Page 2 of

Signature:

Date:



**Boring Number** 

520 Broad Hollow Road., Melville, New York 11747

#### 5B-25

#### **BORING LOG**

Project Name					Project Number	Date & Time Started:	8/16/02-0845	
Johnson		ffman			R4906.00.01	Date & Time Completed:	8/16/02-1215	
Drilling Com	pany				Foreman	Sampler(s)	Sampler Hammer	Drop
	nvironi	<u>nental</u>						
Drilling Equi					Method	Elevation & Datum	Completion Depth	Rock Depth
GeoPro	be						8 feet	
Bit Size(s)					Core Barrel(s)	Geologist(s) Jessica Ferngren		
DEPTH		SAMPL	ES					
			FID/		SOIL DES	CRIPTION	REM	IARKS
(ft below grade)	Sample Number	Recovery (teet)	PID	Blow Counts				
grade)	LOCATION		(ppm)	Counts	SURFACE DESCRIPTION:	Asphalt		
			A			Asphan		
<b>-</b> 0 -	тапе	er Storage 	Area		2 in shore of combalk			
			l		3 inches of asphalt			
			0		medium and coarse sand some			<del></del>
			"		medium and coarse sand some	e giavei		
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<del></del> 3 ·					rust colored coarse and mediu	m sand and gravel		
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1 1			0	<u> </u>				
- 4					rust colored coarse and mediu	m sand and gravel		
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Signature:

Maren Date

8/20/02



520 Broad Hollow Road., Melville, New York 11747

Boring Number

SB-26

#### **BORING LOG**

Project Nam					Project Number	Date & Time Started:	8/16/02-0845		
	n & Ho	tman			R4906.00.01	Date & Time Completed:	8/16/02-1215		
Drilling Con	ipany E <b>nviron</b> r	montal			Foreman	Sampler(s)	Sampler Hammer Drop		
Drilling Equ	ipment	Tieritar			Method	Elevation & Datum	Completion Depth Rock Depth		
GeoPro							8 feet		
Bit Size(s)					Core Barrel(s)	Geologist(s)			
						Jessica Ferngren			
DEPTH		SAMPL			CON DEC	CDIDMION	777.4.740		
(ft below	Sample	Recovery	FID/ PID	Blow	SOIL DES	REMARKS			
grade)	Number	(feet)	(ppm)	Counts					
	LOCATION	i:			SURFACE DESCRIPTION:	Asphalt			
L 0	Traile	er Storage	Area						
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1					coarse and medium sand and	gravel			
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Page 1 of 1

Signature:

J. Fengun

Date: 8/20/01

rev. 9/96 Boring logs081602.xls



520 Broad Hollow Road., Melville, New York 11747

Boring Number SB-27

## **BORING LOG**

Tobaco		£			Project Number	Date & Time Started:	8/16/02-0845	
	n & Hof	ıman			R4906.00.01	Date & Time Completed:	8/16/02-1215	
Drilling Com	pany Invironn	nontal			Foreman	Sampler(s)	Sampler Hammer	Drop
		nentai			Mak-1	Floration & Determine	Complete D. d.	
Drilling Equi GeoPro					Method	Elevation & Datum	Completion Depth	Rock Depth
Georro Bit Size(s)	be				Core Barrel(s)	Geologist(s)	8 feet	
Dit Size(S)					Core parrei(s)	Jessica Ferngren		
DEPTH		SAMPLI	ES			, state a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of		
221111		OI II III	FID/		SOIL DES	CRIPTION	REM	ARKS
(ft below	Sample	Recovery	PID/ PID	Blow	SOIL DES	CIGIT HOLY	KEW	, MANO
grade)	Number	(feet)	(ppm)	Counts				
	LOCATION	:			SURFACE DESCRIPTION:	grass		
_ 0	Traile	r Storage	Area					
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520 Broad Hollow Road., Melville, New York 11747

Boring Number SB-28

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Project Name				-	Project Number	Date & Time Started:	8/16/02-0845	
Johnson		fman			R4906.00.01	Date & Time Completed:	8/16/02-1215	
Drilling Com					Foreman	Sampler(s)	Sampler Hammer	Drop
Zebra E		nental						
Drilling Equi					Method	Elevation & Datum	Completion Depth	Rock Depth
GeoPro	be					(Coole viete)	8 feet	
Bit Size(s)					Core Barrel(s)	Geologist(s) Jessica Ferngren		
DEPTH		SAMPLI	ES					
(ft below	Sample	Recovery	FID/ PID	Blow	SOIL DESCRIPTION		REMA	ARKS
grade)	Number LOCATION	(feet)	(ppm)	Counts	SURFACE DESCRIPTION:	orace		
			A		John Tea Daochii Tion	grass		
<u> </u>	Trane	r Storage	Area		4 inches topsoil and grass			
					14 literies topson and grass			
			0		medium and coarse sand some	gravel		
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520 Broad Hollow Road., Melville, New York 11747

Boring Number SB-29

## **BORING LOG**

Project Nam					Project Number	Date & Time Started:	8/16/02-0845		
	n & Hof	ffman			R4906.00.01	Date & Time Completed:	8/16/02-1215		
Drilling Con					Foreman	Sampler(s)	Sampler Hammer	Drop	
	Environr	nental							
Drilling Equ	ipment				Method	Elevation & Datum	Completion Depth	Rock Depth	
GeoPro	be						<u>8 fee</u> t		
Bit Size(s)					Core Barrel(s)	Geologist(s) Jessica Ferngren			
DEPTH		SAMPLI	ES						
I — —			FID/		SOIL DESC	CRIPTION	REM	ARKS	
(ft below grade)	Sample Number	Recovery (feet)	PID (ppm)	Blow Counts					
	LOCATION	:			SURFACE DESCRIPTION:	grass			
0	Traile	er Storage	Area						
— 0					6 inches of topsoil and grass				
l									
1			0		medium sand with some coars	e sand and little gravel			
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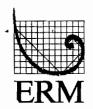
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520 Broad Hollow Road., Melville, New York 11747

Boring Number SB-30

## **BORING LOG**

Project Name & Location		Project Number	Date & Time Started:	8/16/02-0845				
Johnson & Hoffman		R4906.00.01	Date & Time Completed:	8/16/02-1215				
Drilling Com					Foreman	Sampler(s)	Sampler Hammer	Drop
Zebra Environmental						_		
Drilling Equi					Method	Elevation & Datum	Completion Depth	Rock Depth
GeoPro	be						8 feet	
Bit Size(s)					Core Barrel(s)	Geologist(s)		
						Jessica Ferngren		
<b>DEPTH</b>		SAMPLI	ES					
l i			FID/		SOIL DESC	CRIPTION	REMARI	<b>KS</b>
(ft below	Sample	Recovery	PID	Blow				
grade)	Number	(feet)	(ppm)	Counts				
	LOCATION				SURFACE DESCRIPTION:	grass		
— o	Traile	er Storage	Area					
_ 0 [		·			6 inches of topsoil and grass			
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Signature:

Date:

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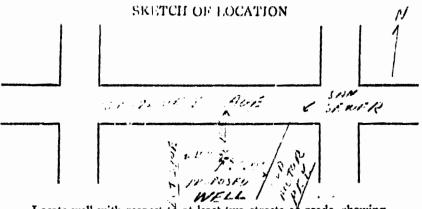
520 Broad Hollow Road., Melville, New York 11747

Boring Number SB-31

Project Nam					Project Number	Date & Time Started:	8/16/02-0845	
Johnso		offman			R4906.00.01	Date & Time Completed:	8/16/02-1215	
Drilling Cor					Foreman	Sampler(s)	Sampler Hammer	Drop
	Environ	mental						
Drilling Equ					Method	Elevation & Datum	Completion Depth	Rock Depth
GeoPro	obe						8 feet	
Bit Size(s)					Core Barrel(s)	Geologist(s) Jessica Ferngren		
DEPTH		SAMPL	ES					
(ft below grade)	Sample Number	Recovery (teet)	FID/ PID (ppm)	Blow Counts	SOIL DES	CRIPTION	REMA	ARKS
grade)	LOCATION		(PPIII)		SURFACE DESCRIPTION:	grass		-
	Traile	r Storage	Area			0.400		
<b>—</b> 0	11411		- I		4 inches of topsoil and grass			
					and the second second second			
			0		medium and coarse sand			
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<b>—</b> 5								
			0					
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	Page	1	of .	1	Signature:	. Fernesen	Date:	20/02

# ws 4-2709 ORIGINAL---TO COMMISSION

County		Well No		76
	State of New York		LO LO	imin <b>ary report)</b> C
. <b>A</b> Ž.	Department of Conservation	Ground Su	ef., 171	ft. above se
Ar.	Division of Water Power and Control		_	- Processing
	COMPLETION REPORT—LONG ISLAND WE		v	
Own	(Loyne Well 75) er .IMC. Village Of MINERIA. (Their Woll #A)		Top of	Well
	ress	no former		
Depti	h of well below surface	feet		
Depti	h to ground water from surface32.1.7.1.	feet		
I S	NGS: Diameter	ft.		
Scree	: s: MakeLayneOpeningsShutter.	•••••		
	Diameterininin.		SET S	BLUE
I	.engthftftft	ft.	356	DIME
Γ	Depth to top from top of casing	ft.	PRI	VT.
n S L M	Ping Test: Date	hours er minute of casing of casingft.	t ATT	ACHED
Римр	Installed:			
	ypeTurbineMakeLayneModel No		1 1	
	otive powerElectricMake			
12004PM C	apacity1225g.p.m. against )185ft. of discha	rge head STA	TE OF	NEW YORK
N	o. bowls or stages7			WER AND
Droz 1	Jane: Suction Line:		1	/ /
	iameter10in,	in.	JUI 2	4 1956
Le	ength	ft.	1 1	
Use of	waterPublicSupply	CONT	ROL (	MOISSIMMO
Work s	startedSeptember. 26, 1955 CompletedJuly3,	1956 F	ECE	IVED
Date	July. 25,1956 Drille Laymankaw. York			
	License No5			
Note:	Show log of well—materials encountered, with depth below ground water bearing beds and water levels in each, casings, screens additional pumping tests and other matters of interest. Describe re-	, pump,		
	See Instructions as to Well Drillers' Licenses and Reports—pp. 5	-		



Locate well with respect to at least two streets of roads, showing distance from corner and front of lot.

Show North Point

Repair

5/10/23 Lovne - Cleaned + repaired welly pumping equipment,

No changes made. Static level at 33'

1/29/71 Loyne - Motor + bowls repaired

Depth to water to 48'

1/17/78 Loyne - Replaced existing RMC Loud assembly to 10"DENC 7 Stage

Installed liner - See Shotch. Dath hadre 43'5"

100 100 110

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dig strength of a property

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Nassau

1-034-01		—————			100 Oc.		
OWNER		<u> </u>		7/	1	*LOG	
	E OF MINEOLA				Ground Surfa	ce	
ADDRESS					EL.	4	
	Tpke., Mineola,	NY 11501				11. 7	above sea
LOCATION OF WELL					<u>^</u>		_ ft.
Well No. 6	21105405	DESTU TO OBOUNDA	ATER EROM CUREACE	_		205 44511	
DEPTH OF WELL BELOW S	SURFACE	DEPTH TO GROUNDW	ATER FROM SURFACE		101	OF WELL	•
463'		SINGS				}	
DIAMETER		311103					
8" in.	12" in.	18"	in.	in.			
LENGTH 301' ft.	ft.		ft.	ft.			
SEALING		CASINGS REMOVED					
Cement					ł		
	sc	REENS					
MAKE		OPENINGS					
DIAMETER	 	1	. l				
in.	in.		in.	in.	M	Do-f	rmed Wei
LENGTH			.		Note: & Pump	I	
ft.	ft.	<u> </u>	ft.	ft.			taller'
DEPTH TO TOP FROM TOP	OF CASING				Report		taller :
	DUMP	ING TEST			Report	•	
DATE	PUMP	TEST OR PERMANEN	T PUMP?		J		
- DATE		TEST ON TENMANTEN					
DURATION OF TEST		MAXIMUM DISCHAF	RGE				
days	hours		gallons p	er min.			
STATIC LEVEL PRIOR TO T	TEST	LEVEL DURING MAXII	MUM PUMPING .	h . l			
ft	in, below top of casing		top of	. below casing			
MAXIMUM DRAWDOWN	Approxim	ate time of return to norma	al level after cessation of				
	ft.	hours		min.	}	J	
		NSTALLED	110051 11111050				
TYPE	MAKE		MODEL NUMBER				
DRHC MOTIVE POWER	Layne	2	3310AT H.P.				
Electric	US		100				
CAPACITY			100				
1000	g.p.m. against		ft. of discharg	ge head	ĺ		
NUMBER OF BOWLS OR S							
7			ft. of tot	ai head			
DROP	LINE	SUC	CTION LINE				
DIAMETER		DIAMETER					
	in.			in.		•	
LENGTH	4.	LENGTH		44			
METHOD OF DRILLING	ft.	LICE OF WATER		ft.		ĺ	
METHOD OF DRILLING  ☐ rotary ☐ cable too	other	USE OF WATER	Supply				
WORK STARTED		COMPLETED	Dabht A				
3-14-91		4-29-91					
NATE :	DRILLER	<u> </u>	LICENSE NUMB	ER			
9-16-91	HYDRO GROU	P, INC.	5				
* NOTE: Show log of well r	naterials encountered, with	depth below ground surfac					
levels in each, cas	sings, screens, pump, additi structions as to Well Driller'	onal pumping tests and ot	her matters of interest. D				

#### ~ ORIGINAL—TO COMMISSION—

County.....Nassau....

State of New York

Department of Conservation

Division of Water Power and Control

COMPLETION REPORT—LONG ISLAND WELL

(N 5/4 2251

Well No.N-4082

LOG

Ground Surf., El.....ft. above sea

Top of We

#### Top of Well LAYNE WELL #4 Owner Mineola Water District Vellage of Address ... Mineola, New York Location of well Mineole, New York Depth to water: Ground water.....ft.; Finished well....33.....ft. CASINOS: Blue Print Sealing ......Comented..... Attached Screens: Make.....Layne.....Openings....Shutter Diameter.....in. in. Depth to top from top of casing.......ft. Pumping Test: Date. Jan. 22, 1953... Test or permanent pump? Test Maximum Discharge......gallors per minute Static Level Prior to Test......ft.....ft....in. below top of casing Level during Max. Pumping......70.....ft......in. below top of casing Maximum Drawdown 57 ft. Approx. time of return to normal level after cessation of pumping......hours......25....minutes PUMP INSTALLED: Type Turbine Make Layne Model No DRHC DE NEW YORK SEP- 8 1953 J SUCTION LINE: DROP LINE: Length 107 ft 10 CONTROL COMMISSIC: RECEIVED Use of water.....Public Supply Work started.....Dec. 12, 1952...... Completed Waiting Final Date Sopt 1 1953 Driller Layne New, York Co. Inc. License No..... Note: Show log of well-materials encountered, with depth below ground surface,

water-bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports---pp. 5-7.

#### SKETCH OF LOCATION

Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

#### Show North Point

Repair

N/10/58 Layine N. J. Repaired camps well. Vo Changes Made.

11/10/58 Layine N. J. Repair pump - bail well + check for depth - test

5/17/66 " Repair pump - bail well + check for depth - test

pumps - No changes made. Depth to water noted 44'11".

11/7/74 " "Routine overhood of pump - Depth to water noted 44'11".

4/1/80 " Routine overhood of pump - Depth to water @39'

3/20/84 " "Installed partial liner in well see sketch.

Addud 10' column and one stage to pump

Depth to water 71' 10" 3/20/84

#### ORIGINAL—TO COMMISSION

State of New York Department of Conservation Division of Water Resources

Well No.	N 8093
	(un proliminary report)
	LOG
Ground Surf.,	Elft. above sea

#### COMPLETION REPORT—LONG ISLAND WELL

Cop of Well

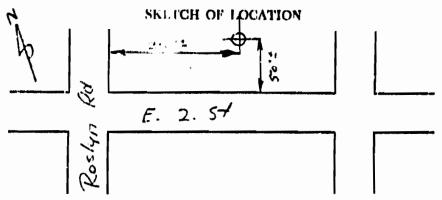
Owner Twentieth Century Fl	lastics Co.	
Address 122 East Second St.	Mineola	
Location of well Same		
Dept of well below surface		feet
Depth to ground water from surface	54 *	fect
Casinos:  Diameter	ft	ftft.
Screens: Make Johnson  Diameter		ì
Pumping Test: Date. 6-13-66  Duration of Test. 50  Maximum Discharge 54  Static level prior to test. 54  Level during Max. Pumping 9  Maximum Drawdown 63  Approx. time of return to normal level of pumping.	days	
Pump Installed:  Type	s	Model No UD 64 JM-32
211	ft	June 13, 1966
	ense No	

Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7.

COMMISSION

? RESOURCES



Locate well with respect to at least two streets or reads, showing distance from corner and front of lot.

Show North Point

0-3 Fill
3-68 Fi-Med brin sd, grit, lige grul, clay
68-90 ~ " " " " " "

markey.	we by			
wee ( A . 1	N G	N	166 411	,
*	Count	y	95 AU	

# W-2751 ORIGINAL—TO COMMISSION

State of New York
Department of Conservation
Division of Water Resources

Well No.	N-8050	report)	•
	LOG		

Ground Surf., El.....ft. above sea

COMPLETION REPORT—LONG ISLAND WELL.

		Top of Well
	Owner Robert A. Bernhault & Donald 0.5	Yen [
	Address 100 Ring RD. W. Garden City N.	/
•	Address	STATE UF NEW YO
	Location of well	VYAIER RESOURCE
1	Dept of well below surface	feet MAY 10 1000
	Depth to ground water from surface	feet COMMISSION
	Casings:	KECENED
*	Diameter 8 in 4 in in in Length 253 ft 1003 ft. ft.	in.
·	Length 253 ft 100 ft. ft.	ft.
177 - 201	/! Sealing	
لي معني المراد	Sealing Casings removed 4" 228	
4 15 2	Casings removed  CREENS: Make 7044504 Openings  Diameter in in in in ft.	14
12/ 12/	CREENS: MakeOpenings	
Jost to	Transfer 7 7 6	n.
James 1	Donath to too force of position	It.
المسرا الممكن	Diameter in in in in in in In In In In In In In In In In In In In	ft. 5/1/2
1 / 0/1	CUMPING Test: Date	imp?/.
1271	Duration of Testdays	hours
•	Maximum Dischargega	lons per minute
	Static level prior to testftftin. be	
	Level during Max. Pumpingftftin. be	
	Maximum Drawdown	ft.
	Approx. time of return to normal level after cessation	
	of pumpinghours	minutes
F	UMP INSTALLED:	
	Type Subiners Make Joeuzz/ Model	No
	Motive power Fiec Make French H.F. Capacity 75 g.p.m. against ) 95 ft. of	
	Capacityg.p.m. against )ft. of	discharge head
	No. bowls or stages	t. of total head
Ī	PROP LINE: Sugarion Line:	
	Diameterin.	in.
	Length 87 ft.	ft.
•	se of water Air Conditioning	
· <b>V</b>	ork started. 3/4/66 Completed. 5/	ر المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المر المراجع المراجع
D	ate 5/5/66 Driller 04/140 L	
	License No	
N	ote: Show log of well—materials encountered, with depth below water bearing beds and water levels in each, casings, screen tional pumping tests and other leavers of interest. Describe	s, pump, addi-

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7.

# County, Nassau

#### ORIGINAL-TO COMMISSION

State of New York Department of Conservation

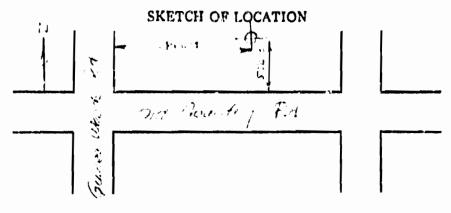
Well	NoN	, T00	
	(on	preliminary	report)
		1.00	

Division of Water Power and Control

Ground Surf., El.....ft. above sea

COMPLETION REPORT—LONG ISLAND WELL ſt. Top of Well Owner Mason Au Na Magenheimer Address 150 Old Country Road, Mineola, N Y. Location of well ..... same ..... Depth of well below surface 322 feet CASINGS: Diameter 12 in in in in Length 282 ft ft ft ft Sealing welded joint Casings removed .....none SCREENS: Make Johnson SS Openings 50 Diameter......8 in. .....in. in. Length 40 ft. ft. ft. Pumping Test: Date. 2/6/62 Test or permanent pump? P 7 YORK Level during Max. Pumping....35....ft.....8.....in. below top of casing Maximum Drawdown 208° ft. Approx. time of return to normal level after cessation 133 of pumping......hours.....minutes ED PUMP INSTALLED: Type DWT Make Worthington Model No. 10M-50 Motive power. Elec. Make US H.P. 40
Capacity. 600 g.p.m. against \ ..... 140 ft. of discharge head DEOP LINE: SUCTION LINE: Use of water cooling Work started. 10/9/61 Completed. 2/2/62 Driller C. W. LAUMAN & CO., INC. 2/28/62 License No....13 Nore: Show log of well-materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7.



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

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0-7 Fill topsoil, goy of 7-14 Use St. grits, grul 74.47 Sdy + sta yellow cl 47.62 BAN C/ 6271 Fibrasd 71-86 Fibrasd, some of 86-93 Yellow 517 cl 93-105 Fibrasd 105-114 Fi how so & yellow of 114-119 Multicol of 119-123 Fibro sd 123-140 Sdy 1 Sld multi col (1 140-100 Str sd cl hopen 150-158 Gry c/ 15-F-192 Fibin so & hopp, some of 192-198 909 61 198-wo F. GAN SX, some of 200-205- 904 61 10 -200 F1 01111 38 LIL-125 GAY CI, some of 225-242 while say of 24 . 44 Bec. 51 ordered worth sty of 201215 Foy 01 2.15.200 White sty al 200-174 Ben - gry 50 - cl 200 208 One white an come of 275 -82 Mer 14 10me 11 28 - 11 2 Whit : 53

1

#### ORIGINAL—TO COMMISSION

State of New York
Department of Conservation
Division of Water Power and Control

COMPLETION REPORT—LONG ISLAND WELLS

Well No.	N=2627
	TOC

LOG

Ground Surf., El... 89...ft. above sea

N. S. ft. P1t

COARSE

GRAVEL

MED. BROWN

SAND

FRW GRITS

COARSE BROWN

SAND& GRAVE

BROWNSGE

SANDY CLAY

BROWN

#### Owner U. S. Printing & Lithographing Company Address Cincinnati. Ohio 3 Location of well Carle Place, L. I. Depth below surface 50 + 8' - 58' Depth to water: Ground water 14! -6" ft.; Finished well 14! -6" ft. 25 CASINGS: Length 36 ft ft ft ft ft ft Screw Packer Casings removed None 40 Screens: Make Johnson Silicon Red #30 Slot Diameter 8 in Brass in in in in. Depth to top from top of casing 34.1-6" ft. 50 Pumpino Test: Date 1/20/49 Test or permanent pump? Perm. Duration of Test days hours Maximum Discharge 300 gallons per minute Level during Max. Pumping.....ft......ft.....in. below top of casing Maximum Drawdown......ft. Approx. time of return to normal level after cessation of pumping......hours.....minutes PUMP INSTALLED: Type D.W.T. Make F.M. Pomona Madel No. 8LC Motive power. Elec. Make U.S. H.P. 20 No. bowls or stages. 11 205 ft. of total head SUCTION LINE: DROP LINE: Diameter 5" in 5 in Length 20 ft 10 ft Use of water Cooling & Air Conditioning Work starte 7/30/48 Completed 1/20/49 Date 1/22/49 Driller C.W. Lauman & Co., Inc. License N. ......13 Note: Show log of well-materials encountered, with depth below ground conface, water-bearing beds and water levels in each, casings, screens, yourp, addi-

tional pumping tests and other matters of interest. Describe repair job. See Instructions as to Well Drillers' Licenses and Reports--pp. 5-7.

SKETCH OF LOCATION	
245' WELL#2	
OLD COUNTRY ROAD	
Gruine	•

Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

County. Nannu

# ORIGINAL\_TO COMMISSION

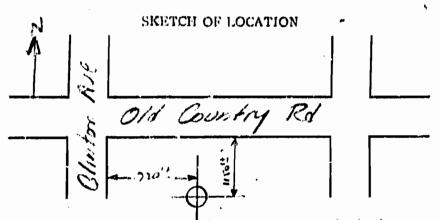
State of New York Department of Conservation Division of Water Resources

14/411	ML.	N <b>-</b> 5485
VV CII	140,	(in preliminary report)
		100

LOG
Ground Surf., El......ft. above 82a

COMPLETION REPORT—LONG ISLAND WELL	ï	^ ✓ op of `	
Owner ROOSEVELT FIELD WATER DISTRICT			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Address 1995 Prospect Ave. E. Meadow, N.Y.	•		
Location of well T-#2 Theatre Site			
557			
Depth of well below surfacefee			
Depth to ground water from surface	t		
Casings:		7.00	
Diameter. 30" in. 20" in. 12" in. in  Length. 90' ft. 467' ft. 81'-10½" ft. ft		rog	attached
		ill p	rint to
Sealing cement		dllow	
Casings removed none  Tohnson WW 40' - 55 slot	•		
Screens: Make			
Diameter 10" ID in in in in in	•		
Diameter. Avin	•		ļ
Length80 ft	,		
Depth to top from top of casingft.	,		
Pumping Test: Date1C/4/72Test or permanent pump?Test			7
Duration of Test days 75 hours	C i	RE	11 490
Maximum Discharge. 1404 gallons per minute	<u></u> 0.	, ,,,,,	/
Maximum Discharge	SEP	181	373
Level during May Pumping 145' ft 5" in below top of casing	WATE	R 50	PPLY
Maximum Drawdown 105' 2" ft	MGM	ir. U	ĦΤ
Appear time of return to reserve level often counting	REC	E	/ED
Approx. time of return to normal level after cessation 1 of pumping			
or pumping			
Pump Installed: Worthington Head		ı İ	
TypeDWT Make Layne Bowl Model No. DRHC			
Motive power Electric Make U.S. H.P. 150			
Capacityft. of discharge head			
No. bowls or stages			
Deep Language Language Language			
Drop Line: Suction Line:			
Diameter 10 <sup>te</sup> in 10 <sup>te</sup> in Length 180 <sup>t</sup> -1 <sup>te</sup> ft ft	İ		
Method of Drilling (Rotary, cable tool, etc.) Rev. Rotary			
Use of Water Public Supply			
Work started			
Date	, INC.		
License No			
Note: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.			1

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7.



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

# W-OF GINAL TO COMMI

County .... ADALAMA....

#### State of New York Department of Conservation Division of Water Power and Control

Well No. 11 5135 19 (on preliminary report)

LOG

COMPLETION SEPORT-LONG ISLAND WELL

Ground Surf., El......ft. above sea

	Top of	Weli
Owner Remonavoli Marid Inc.		
Address 503 Budlaon Ave., How York, N.Y.	i	
Location of well .Qld Country Rd., Hompstand, U.Y.		
Depth of well below surface		
Depth to ground water from surface24		
CASINGS:         Diameter		
Screens: Make         Openings           Diameterin.         ininininin	f	
Pumping Test: Date		
PUMP INSTALLED:		İ
Type		EN AUSK
Drop Line: Suction Line:		,
Diameter in in Length ft.  Use offenser. Marmatian Test Hole.		943(5: <b>0N</b> ) 1480
Work started		
Date. July 27, 1955 .W. Lamman & Co. Inc	•	
License 3		
Note: Show log of well—materials encountered, lepth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.  See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.		



Well Number N-5485

#### COMPLETION REPORT—LONG ISLAND WELL W.S.A#6108

OWNER				*LOG			
Roosevelt Field Water District, Town of Hempstead					Ground Su	ırface	
ADDRESS							
1995 Prospect Aven	ie, East l	Meado	w, New York 1	1554		EL	ft. above sea
LOCATION OF WELL						1	ft.
Roosevelt Field #2						V	
DEPTH OF WELL BELOW SURFA	CE		DEPTH TO GROUNDW	ATER FROM SURF	ACE	1	TOP OF WELL
557							1 1
N/A		CAS	INGS				
DIAMETER							
in.		in.		in.	in.		[
LENGTH							
ft.		ft.		ft.	ft.		
SEALING			CASINGS REMOVED				
N/A		SCR	EENS				N/A
MAKE			OPENINGS				
			0.2				
DIAMETER							
in.		in.		in.	in.		
LENGTH		111.		m.			
ft.		ft.		ft.	ft.		
DEPTH TO TOP FROM TOP OF C	ARING			н.			
DEPTH TO TOP PROM TOP OF C	ASING						
N / A		5	IO TEOT				
N/A		PUMPIN	IG TEST	T DUNABA			
DATE			TEST OR PERMANEN	PUMP?			
DURATION OF TEST			MAXIMUM DISCHAI		!		
days		hours			lons per min.		
STATIC LEVEL PRIOR TO TEST		below	LEVEL DURING MAXII	1	in. below		
ft.	top of d				top of casing		
MAXIMUM DRAWDOWN	''	roximat	e time of return to norma	al level after cessat			
	ft		hours		min.		
N/A		UMP IN	STALLED				
TYPE	MAKE			MODEL NUMBER			
MOTIVE POWER	MAKE			H.P.			
CAPACITY			I			]	
	g.p.m. aq	gainst		ft. of dis	scharge head		
NUMBER OF BOWLS OR STAGE	S		I				
					of total head		
DROP LINE				CTION LINE			
DIAMETER			DIAMETER			FEC	EIVED
		in.			in.	W.L. 40	
LENGTH			LENGTH			nct	1 4 1988
		ft.			ft.		
METHOD OF DRILLING * Wel	~		USE OF WATER			WAT	ER UNIT REGION 1
rotary Cable tool	other		Public Sur	pply		UEC	SCHOOL &
WORK STARTED			COMPLETED				
05/26/88			05/28/88				
DATE DRILL				LICENSE N			
09/28/88	<u>Delta Wel</u>	1 & 1	Pump Co., Inc.	# 129	9	J	
	screens, pump,	addition	epth below ground surfact nal pumping tests and ot License and Reports. Pag	her matters of inter-			

ORIGINAL—Environmental Conservation Copy

#### SKETCH OF LOCATION

	<b>^</b>	
G	N	
1	,	
e		
n		
С	Old Country Road	
°		
v e	<b>₩</b> Well #2	
	Theatre Penny's	
144.	,	-
Ro	osevelt Field Shoppin respect to at least two s	ig Center
	n corner and front of lot.	illeets of Toads,
onowing distance nor		
	Show North Point	
CHECK THE TOWN II	N WHICH THE PROJECT	IS LOCATED:
OHEOR THE TOWN II		O LOOKILD.
Nassau County:		
⊠ Hempstead	☐ North Hempstead	Oyster Bay
23110mpotoda		_ 0,0.0 0,
Suffolk County:		
Babylon	Brookhaven	☐ East Hampton
Huntington	☐Islip	Riverhead
Shelter Island	☐ Smithtown	Southampton

 $\square$  Southold

State of New York

Well	No.	N-8539
		(on proliticiary count)
		100

Department of Conservation Ground Surf., El.....ft. above sea Division of Water Resources COMPLETION REPORT—LONG ISLAND WELL Top of Well Owner Korvette's Furniture Centre sand & gravel Address 180 Avenue Of Americas, New York, N.Y. 10036 45 Location of welflen Coye Rd. & Westbury Av., Carle Place, N.Y. fine Depth of well below surface....65. 65 very fine Diameter 6 in in in in sandy clay Sealing ..... Casings removed ..... Screens: Make Johns n Openings 20 slot clay balls Diameter 5 in in in in in Length \_\_\_\_\_\_\_ft. \_\_\_\_\_\_ft. \_\_\_\_\_\_ft. Pumping Test: Date......Test or permanent pump?...... E. C. REGION Duration of Test......hours JUN 29 1973 Maximum Discharge......45. g. p. Ma......gallons per minute Level during Max. Pumping....58.......ft...............in. below top of casing Maximum Drawdown .12..... Approx. time of return to normal level after cessation of pumping......minutes PUMP INSTALLED: Type Sub. Make Sta-Rite Model No. No. bowls or stages......ft. of total head SUCTION TANE: DROP LINE: Length 50 ft. Meil .d of Drilling (Rotary, cable tool, etc.) ..... cable ...... Use of Water cooling Work started June 1969 Completed April 1970 Date June 1973 Driller Diamond Wells Licerse No. 484

Note: Show log of well-materials encountered, with depth below ground surface,

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7.

water bearing bods and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

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#### County....Nassau

W. C. SIE

J K	1011	AWL	16	J	UM	WIS	21	U

Well	NoN-6080
	(on preliminary report)

State of New York
Department of Conservation
Division of Water Power and Control

Ground Surf., El......ft. above sea:

COMPLETION REPORT--LONG ISLAND WELL

COMMISSION RELOCIONO ISEMNI) WEEL.	V	
	Top of	Well Roa
Owner Rossfeld Inc.,	5	Well BRB SANDY CL
Address /e cor. Guineawoods Rd. Carle Place, L.I., N.Y.		Ir BRO
Location of well		SANDI
Depth of well below surface	١.	FLUMPS
	6	OF CLAY
Depth to ground water from surface 9 cellar/ 20 grade feet	-	COARSE
Casings:	- }	1J. BRO
Diameter	.,,	
Diameter	36	GIZAVEL
Sealing	1	]
Casings removed		1
_	ļ	
Screens: Make Cook W.W. Openings 20 slot		
Diameter		}
Lengthftftft		
Depth to top from top of casing		} ·
Pumping Test: Date. Apr. 5,1957 Deskor permanent pump?	1	
Duration of Testhours	1	ł
Maximum Discharge45gallons per minute	1	ł
Static level prior to test9ftin. below top of casing		1
Level during Max. Pumping15ftin. below top of casing		1
Maximum Drawdown	- 1	l
Approx. time of return to normal level after cessation		ł
of pumpingatoncehoursmiautes		
Pump Installed:	ĺ	
Type D.W. Turb, Make A.O. Smith Model No. 4 HOL		
Motive power. Slec. Make A.C. Smith H.P. 3		
Capacity	OF NE	Y YORK
Motive power slec Make A.C. Smith H.P. 3  Capacity 4.5 g.p.m. against 15  No. 2000 or stages 6 107.4 ft. of total head 15	R POW	R AND
DEOP LINE: SUCTION LINE: NO	V 2 0	1958
Diameter	ا ۲ ۲	330 0
Length 25 ft CONTRO	, koul	NCC1C1
Use of water air conditioning and refrigeration RE	CEIV	WISSICN
Work started Dec.6,1956 Completed Apr.5,1957	F	
Date	20.	
License No. 251		
Note: Show log of well—materials encountered, with depth below ground surface, water hearing beds and water levels in each, casings, screens, pump,		
additional pumping tests and other matters of interest. Describe repair job.		

See Instructions as to Well Drillers' Licenses and Report:---pp. 5-7.

SKETCH OF LOCATION

OF LOCATION

OF LOCATION

OF LOCATION

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OF LOCATION

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OF LOCATION

Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

Tarmer No. L.)

as the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contrac

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# ORIGINAL—TO COMMISSION

WSA-6211

State of New York

Department of Conservation Division of Water Resources

COMPLETION REPORT—LONG ISLAND WELL

Well	No.	N-8905		
		(on pixlimlenty tepatt)		
		LOG		

Ground Surf., El......ft. above sea ۸ .....ft,

· 914 V

r.F.D

## Top of Well LONG ISLAND WATER CORP. Owner ...... 733 Sunrise Highway, Lynbrook, N.Y. Address ..... Starfire Ct. Valley Stream - T-#20 Suction Location of well ..... CASINGS: Diameter......in. in. in. in. in. in. Length 123† 8† ft. Sealing ..... Impervious fill Casings removed \_\_\_\_\_\_none Screens: Make Layne Openings #7 slot Diameter...8" Length 20' ft. ft. ft. Depth to top from top of casing...........ft. RECLIVED Pumping Test: Date......11/1/73 .....Test or permanent pump?...... Maximum Drawdown 6\*-2" ft. Approx. time of return to normal level after cessation 30 of pumping.....hours.....hours.... None PUMP INSTALLED: Capacity.....ft. of discharge head SUCTION LINE: Drop Line: Diame'er .....in. Length \_\_\_\_\_ft. Public Supply Use of Water ..... 6/5/73 Work started..... LAYNE-NEW YORK CO. INC. 12/5/73 .....Driller.....

Note: Show log of well-materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

License No......5

See Instructions as to Well Drillers' Licenses and Reports - pp. 5-7.

### ORIGINAL-TO COMMISSION

County	*************	
	N-56	C. C 780

State of New York

Department of Conservation

Division of Water Power and Control

Address Marks As Albertains As A. A.

Location of well

Depth of well below surface \_\_\_\_\_\_\_feet

Well No.....(on preliminary report)

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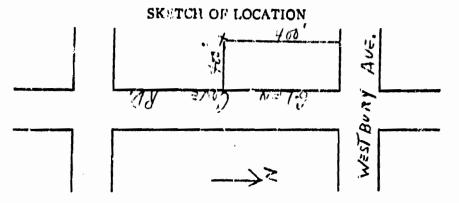
Ground Surf., El.....ft. above sea

Top of Well

Inc

COMPLETION EEPORT--LONG ISLAND WELL

i
,
) <b>.</b>
•



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

Comayad Saddianninan

N-5:300

## State of New York

Department of Conservation Division of Water Power and Costrol Growal Surf., El......ft. abose sea

COMPLETION ELPORT-LONG ISLAND WELL

Top of Well FILL 101 41 0.10 BA 1. 7 5050 GRITSPHRAV MCD. TO COARSE Line RPONV SAND FOCS GRITS & GRAVI 41' SHAE AS 17'1041' FLI ER GRIT ZGRAV. 67' BROW SILTY SAND E HARDOAN

70'

Ϋ́ö́
Owner Radian and make and the first and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the
Address Ave. Com. G. & E. V. S. Selle, E.D. S. VV. Selle, S.A. M. A. & A. S. S. L. & S. A. S. S. S. L. & S. A. S. S. S. S. S. S. S. S. S. S. S. S. S.
Location of well
Depth of well below surface 1.72.711 feet
Depth to ground water from surface. 18
C.SINGS:  Diameter. in. in. in. in. in.  Length. 3.5 ft. ft. ft. ft.  Sealing  Casings removed  16 - 30 Shor  Screens: Make 66 15 60 Openings 51 - 25 54 67  Diameter. 4 in. in. in. in.  Length. 15 ft. ft. ft. ft.
Depth to top from top of casing5.21ft.
Pumping Test: Date. W. 15-55 Test or permanent pump? Test  Duration of Test. days. 2 hours  Maximum Discharge. gallons per minute  Static level prior to test. Self. General below top of casing  Level during Max. Pumping. 34 ft. below top of casing  Maximum Drawdown 16 ft.  Approx. time of return to normal level after cessation  of pumping. Maximum bours minutes
Pump Installed: Wet unstalled this date  Type Make Model No.  Mutive Ger. Make H.P.  Capacity g.p.m. against the ft. of discharge head  No. powls cr stages ft. of total head
Drop Line: Suction Line:  Diameterin.  Length
Wor, ted Way (1-55 Completed YVV)
Date Ware 21 - 51 Driller C.W 3 P. Co.
Note: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7

SKETCH OF LOCATION

SKETCH OF LOCATION

GLEN COVE READ

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Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

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# ORIGINAL---TO COMMISSION

County. . . ...

14 1

# State of New York

## Department of Conservation Division of Water Power and Control

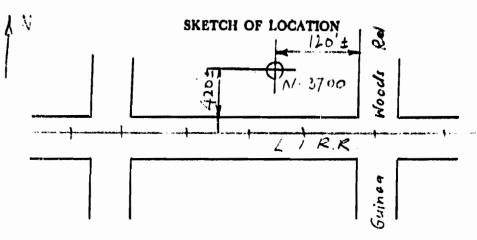
Well No. A Con preliminary sepor

LOG

# COMPLETION REPORT—LONG ISLAND WELLS

H 2 Ground Surf., El. ........ft. above :

COM BETTON REFORM ISLAND WEILES	Top of Well //- B
Owner Sidded dotad Lithographing Corp. Address Condition Process Rd Carle Place LE	Eling Gre
	22
Location of well	reddish
Depth below surface	ban Sand
Depth to water: Ground water	#6r/ 34'
CASUNGS:	light bru
Diameter. in. in. in. in.	1 0
Length 41'-5 ft ft ft ft ft ft ft	Schaf Gr
Sealing	40'
Casings removed	dark brins
Screens: Make Johnson Ererdur Openings # 50 slot	1 ' [
Diameterin. in. in.	Grib, scnic G
Length $\frac{\partial f}{\partial t}$ ft. ft. ft. ft. Depth to top from top of casing $\frac{39'-9''}{2}$ ft.	51
Depth to top from top of casingft.	bru Sand
PUMPING TEST: Date 8/14/TI Test or permanent pump? Test	& Grl
Duration of Test	
Maximum Discharge 5.20 gallons per minute	65'
Static Level Prior to Test	brucsas.
Level during Max. Pumpingftftin. below top of casing	1
Maximum Drawdown 27. ft.	lumps of Co
Approx. time of return to normal level after cessation	68'
of pumping hours minutes	1
Pump Installed:	jayar of 11dp.
Type DWT Make Johnston Madel No. 8 CS #  Motive power El. Motor Make M.S. El. H.P. 30	1 lumps Clay,
Motive power El. Motor Make M.S. El. H.P. 30	f., dayey S.
Capacity	f., chayey S.
No. bowls or stages	
DROP LINE: SUCTION LINE:	brin clayey
Diameter in in in.	Sand
Drop Line: Suction Line: 6 Diameter in. in. Length 20 ft.	061
The of water 6 C/1 C/1 A	00
Work started Completed 6/31/5.  Date Driller (N. 1041), 5141 (9)	black
Work started.	Solid W.
Date Driller 13 WATER	POWER AND
License No	C. C. MIND
Note: Show log of well-materials encountered, with depth below ground surface DV	- 3 195
water-bearing beds and water levels in each, casings, screens, plump, addi-	
tional pumping tests and other matters of interest. Describe repair job.	COMMISSION
See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.CONTROL	EIVED
international and a second	1-16-1-1-16-18-18-18-18-18-18-18-18-18-18-18-18-18-



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

### ORIGINAL—TO COMMISSION

County.

## State of New York Department of Conservation Division of Water Power and Control

COMPLETION REPORT—LONG ISLAND WELLS

Well No. 1 3577

Ground Surf., El.........ft. above sca:

Top of Well

8 1. 1. Yoult

RECEIVER

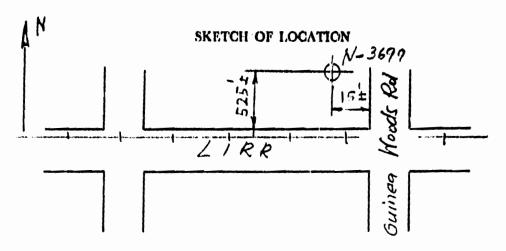
Owner 56 100/ 1 8d 11/0317/1/19 Cott Address Que des Nords Pet, Corla Piace LINY Location of well. Sand & Depth below surface 88 - 8" feet 5rave 37 Depth to water: Ground water. 23 ft.; Finished well. 23 ft. Sand & CASINGS: Gravel, Diameter......in. ......in. Mora Sand Length 62-10 ft ft ft. 53 Sand & Casings removed ..... Gravel Screens: Make Johnson Everdur Openings # 30 slat Diameter.....in. in. in. Length 5 ft. ft. ft. Pumping Test: Date 7/12/51 Test or permanent pump? 72,5 Maximum Discharge 250 gallons per minute Level during Max. Pumping.....ft.....ft....in. below top of çasing Maximum Drawdown net observed - hydr seal ft. Sand Approx. time of return to normal level after cessation 88' brn Chy PUMP INSTALLED: Type Divi Make Johnston Madel No.8 C.S. Motive power FI Motor Make U.S. El H.P. 30 Wacksdid SUCTION LINE: DROP LINE: Use of water Ganeral 6/9/51 Completed 10/3/ Date Driller GU, Lacinian STATE OF MEY YORK

License No....../3

Show log of well—materials encountered, with depth below ground survey, water-bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job WIRO! COMMISSION

Note: Show log of well-materials encountered, with depth below ground surface NOV + 3 1951

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

Apl. No. W-885 ORIGINAL - TO COMMISSION Courav Department of Conservation 1-2729.0 Well No. N- 2-230 Division of Water Power and Control Diff, " (on preliminary report)

M. 1777777 (2229D) LOG Ground Surf., El.... THOM LOG GRADI COMPLETION REPORT-LONG ISLAND WELLS O' TRAIN Top Owner A MAN A LT CASING CUT OFFI

APR 1-6"

ABOVE FLOOR FILL Location of well SAME VELOCK Depth below surface 84.6 feet Depth to water: First ft.; Final 37.5 ft. CASINGS: Diameter — in. — in. — in. — in. Length 64'-1" ft. ft. ft. ft. Sealing 8"x6' PACKEC Screens: Make Jenney Evenbur Openings #25 510T Diameter — in. — in. — in. Length 1.5 ft. ft. ft. Depth to top from top of casing 67-8"

T-1" BLANK, ON TOP OF SCREEN Pumping Test: Date.....Test or permanent pump?.... Duration of Test days hours Maximum Discharge gallons per minute Static Level Prior to Test\_\_\_\_\_\_\_feet\_\_\_\_\_inches Level during Max. Pumping feet inches Maxin um Drawdown feet feet Approx time of return to normal level after cessation of pumping \_\_\_\_\_hours\_\_\_\_minute's PUMP INSTALLED: Type D. W. 7. Make Johnson Model No. 8 FM. Motive power 1/4/2. Make U.S. E. H.P. 15 Capacity g.p.m. against ft. of head No. bowls or stages 10 TRAVEL DROP LINE: Diameter.....in. Length ft. ft. Work started Completed 5-37-47 Driller - P. STATE OF VEW YORK -40 FILE FAMER ANII

Note: Show log of well-materials encountered, with depths below ground surface, water-bearing beds, easings, screens, pump, additional pumping tests and other matters of interest.

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7

	FCH OF LOCAT	rion	•
SIDE BLDE	7 700	24.574	
 . 0.	14552	11777	F. D
		7011154	

Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

# ORIGINAL—TO COMMISSION

County. Nassau...

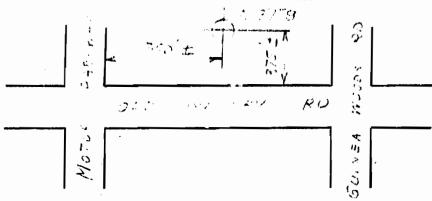
State of New York Department of Conservation Division of Water Power and Control Well No. N=3758
(on preliminary report) LOG

Ground Surf., El.....ft. above sea

COMPLETION REPORT—LONG ISLAND WELLS	Top of Well
Owner Laboratory Furniture Co., Inc.	1 1
Address P.O. Box 590, Mineola, L.I., N.Y.	For log see
Location of well Old Country Rd., Mineria, I.I.	reverse side.
Depth below surface 90'-10" feet	
Depth to water: Ground water 38! 9! ft.; Finished well 38 - 9! ft.	
Casings removed	
Screens: Make Johnson Evendum Openings #30 slot  Diameter 8 in in in in in in in Length 11 ft ft ft ft ft ft ft ft ft ft ft.	
Pumping Test: Date 10/1/51 Test or permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump? Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent pump. Permanent p	
Pump Installed:  Type	1
Diameter in 4" in Length 65 ft 10' ft	
Use of waterGeneral	
Work started 6/28/51 Completed 10/4/51	
Date	YORK
Note: Show log of well—materials encountered, with depth below ground surface, water-bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.	

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7.

### SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

## WELL LOG

O'-9'-3" - Pump pit
9'-3" - 55' - Coarse sand and large gravel
55'-64' ... Coarse sand and gravel
64'-77' ... Clean med. sand
77'-82' - Fine brown sand
82'-85' - Med. fine sand
85'-91' - Coarse sand and gravel
91'-92' - Very fine gray sand
92' - 100'- Fine sand and gray clay

BEPAIR - DRILLER #13

County. ... ... Manawatt......

State of New York
Department of Conservation

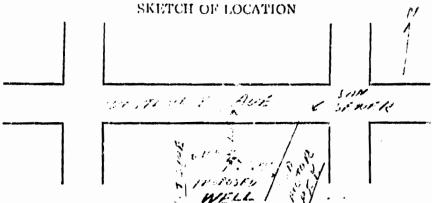
Division of Water Power and Control

Ground Surf., El......ft. above sea

<b>M</b>	Division of Water Power and Control	iff., 151
(1	COMPLETION REPORT—LONG ISLAND WELL	^ft.
		Top of Well
	(Leyno Tett 75) Owner AMG. A. LIAGE OF MINTAIA(Thedx. Sold.L.#6)	
	Owner desired, blendall climately and a control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of	
	AddressMiamo.la., L.J.	
	South side of Mentbury Ave. & west of the former Location of well Late Motor Parkway, Minerala, New York	
	Depth of well below surface	
	Depth to ground water from surface321.7ttfeet	
	Casings:	
	Diarneter	
	Length	
	Sealing Comented	
	Casings removedNone	
	CREENS: MakeLaynoOpeningsShutter	
	Diameterininin.	SEE BLUE
	Lengti	
	Depth to top from top of casing	PRINT
	Pumping Test: Date July 3 1956 Test or permanent pump Permanen	t ATTACHED
	Duration of Testdays	
	Maximum Discharge1200gallons per minute	
	Static level prior to test321.7ft	1
	Level during Max. Pumping72ft6in. below top of casing	·
	Maximum Drawdown	
	Approx. time of return to normal level after cessation	
	of pumpinghours30minutes	1 1
	Pump Installed:	
	TypeTurbineMakeLayneModel NoRMC	
BUTH	Motive power. Electric Make U.S. H.P. 100.	
12004	Capacity1225g.p.m. against \ft. of discharge hard	TE OF NEW YORK
	No. bowls or stages	THE OF NEW YORK
	Drop Line: Suction Line:	THER AND
	Diameter 10 in 10 in	JUI 2 4 1956 /
	Length108!7!!ft9	
	Use of waterPublicSupply	TROL COMMISSION
	Work startedSoptember. 26, 1955 CompletedJuly. 3, 1956 F	RECEIVED
	DateJuly.25, 1956 Driller.Layna-New.York.CoInc,	,
	License No	
	Note: Show log of well-materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.	
	Lunkung terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan terminan term	

See Instructions as to Well Drillers' Licenses and Reports 37. 3-7.

14



Locate well with respect to at least two streets of roads, showing distance from corner and front of lot.

Show North Point

Repair
5/10/23 Layne - Claused & repaired well's pumping equipment,
No changes made. Static level at 33'

1/29/71 Layne - Motor & bowls repaired

Depth to water 60 48'

1/17/78 Layne - Replaced existing RMC bead assembly to 10'DENC 7 Stage
Installed liner - See Sheteb. Depth to water @ 43'5"

DATA USABILITY SUMMARY REPORT (DUSR)
SUPERIOR GROUP, INC.
J&H SITE, CARLE PLACE, NEW YORK
GROUND WATER SAMPLE ANALYSIS
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)
PROJECT NUMBER R4908.00.01
SEVERN TRENT LABORATORIES (STL) SHELTON, CT
JOB NUMBER 201080

#### Deliverables:

The above referenced summary data package and analytical data package for five (5) ground water samples, one (1) blind field duplicate sample, one (1) field blank, one (1) trip blank and one (1) set of matrix spike/matrix spike duplicate (MS/MSD) samples contain all required deliverables as stipulated under the 1995 New York State Analytical Services Protocols (ASP) for Category B deliverables for Non-United States Environmental Protection Agency (USEPA) Contract Laboratory Protocol (CLP) methods. The sample specific analysis performed included Target Compound List (TCL) Volatile Organic Compounds (VOC) analyzed by USEPA SW-846 Method 8260B. All samples were analyzed in accordance with "Test Methods for Evaluation Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions." The data have been evaluated according to the protocols and quality control (QC) requirements of the analytical methods, the ASP, the USEPA CLP National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B and the reviewer's professional judgment.

This report pertains to the following samples:

<u>Samples</u>	<u>QC Samples</u>
MW-01	DUP051602 (blind field duplicate of MW-01)
MW-02	MW-01 MS/MSD
MW-03	FB051602 (field blank)
MW-04	TB051602 (trip blank)
MW-05	•

# **Organics**

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times both technical and procedural and sample preservation
- Surrogate Compound recoveries, summary and data
- MS/MSD results, recoveries, summary and data
- Laboratory Control Sample (LCS) recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Blind Field Duplicate results
- Field Blank results
- Trip Blank results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above have been judged to be in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have evaluated according to the procedures outlined above and qualified accordingly.

#### Volatiles

• The percent recovery (%R) of carbon disulfide (76%; QC limits 81-120%) was below QC limits in the MS analysis of sample MW-01 while the %R of vinyl chloride (72%; QC limits 74-125%), 1,1-dichloroethene (73%; QC limits 81-117%) and carbon disulfide (65%; QC limit 81-120%) were below QC limits in the MSD analysis. Qualification of sample data is not performed based on MS/MSD results alone. Results for carbon disulfide, vinyl chloride and 1,1-dichloroethene in the unspiked portion of the sample only are possibly biased low. Positive detects are therefore flagged "J" and non-detects are flagged "UJ".

- The %R of carbon disulfide (72%; QC limits 81-120%) was below QC limits in the blank spike analysis applicable to all samples. Results for carbon disulfide, in all samples are possibly biased low. Positive detects are therefore flagged "J" and non-detects are flagged "UJ".
- The following table lists blanks (method, trip and field blanks), blank contaminants with concentrations and the samples associated with the blanks. Detected sample concentrations of methylene chloride, acetone, toluene or 2-butanone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels into account) are negated and qualified as a non-detect. For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Blank	Contaminant	Concentration (Action Level)	Associated Samples
TB051602	chloroform	0.2 J (1.0 μg/l)	All samples

• The following table lists compounds that exceeded 15 percent relative standard deviation (%RSD) for relative response factors (RRF) in the initial calibration (ICAL) or 20 percent difference (%D) between the initial calibration average response factor and the continuing calibration verification (CCV) response factor. Associated field samples are also listed. Positive results for these compounds in associated samples are considered estimated and flagged "J". All non-detect results for the compound of interest in the appropriate samples are flagged "UJ".

Calibration	Compound	Deficiency	Associated Samples
ICAL 05/16/02 09:29-12:36	bromomethane chloroethane acetone 2-butanone 4-methyl-2-pentanone	%RSD=18.6 %RSD=15.9 %RSD=24.8 %RSD=17.3 %RSD=16.0	All samples
	2-hexanone	%RSD=10.0 %RSD=19.0	
CCV 05/20/02 @ 09:59	bromomethane chloroethane	%D=42.0 %D=26.8	MW-01, MW-02, MW-03, MW-04, MW-05, DUP051602
CCV 05/21/02 @ 08:35	chloromethane bromomethane acetone 1,1,2-trichloroethane	%D=22.8 %D=28.0 %D=39.0 %D=21.0	MW-01DL, DUP051602DL

• The following table lists samples that were reanalyzed at dilutions (indicated by a "DL" suffix) due to target compounds concentrations exceeding the linear calibration range of the instrument in the initial analysis. The laboratory has indicated those compounds with an "E" qualifier on the analysis data sheets (Form I). The dilution analysis results should be used only for those compounds flagged with an "E" qualifier on the initial analysis Form I. All other results should be used from the initial analyses.

Sample	Dilution Factor
MW-01DL	2x
DUP051602DL	2x

 Cis-1,2-dichloroethene was detected in sample MW-01, but not in the associated blind field duplicate DUP051602.
 Chlorobenzene was not detected in sample MW-01, but was in the associated blind field duplicate DUP051602. As a result, the concentration of cis-1,2-dichloroethene and chlorobenzene in each sample is considered estimated and flagged "J" or "UJ" respectively.

# Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:

Andrew J. Coenen Project/Scientist Dated: 24 July 2002

MW-01

Lab Name: STL/CT

Contract:

Lab Code: STLCT

Case No.: 201080 SAS No.:

SDG No.: 201080

Matrix: (soil/water) WATER

Lab Sample ID: 201080-1

Sample wt/vol:

5.000 (g/mL) ML

Lab File ID: M8794

Level: (

(low/med) LOW

Date Received: 05/16/02

% Moisture: not dec. \_\_\_\_

Date Analyzed: 05/20/02

GC Column: DB-624

ID: 0.53 (mm)

COMPOUND

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_ (ul

CONCENTRATION UNITS:

CAS NO.

(ug/L or ug/Kg) UG/L

,

74-87-3	Chloromethane	5 U
75-01-4	Vinyl Chloride	5 0
74-83-9	Bromomethane	5 0
75-00-3	Chloroethane	รโบร
75-35-4	1,1-Dichloroethene	รโบว
67-64-1		10 05
75-15-0	Carbon Disulfide	5 U J
75-09-2	Methylene Chloride	5 U 5 U
156-60-5	trans-1,2-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 <u>U</u>
	cis-1,2-Dichloroethene	0.5 J
78-93-3	2-Butanone	10 (0.5)
67-66-3	Chloroform	5   ປັ
71-55-6	1,1,1-Trichloroethane	5 U 5 U
56-23-5	Carbon Tetrachloride	5 U
71-43-2	Benzene	5 U
107-06-2	1,2-Dichloroethane	5 U
108-05-4	Vinyl Acetate	5 U
	Trichloroethene	12
78-87-5	1,2-Dichloropropane	5 <del>U</del>
75-27-4 <i></i> -	Bromodichloromethane	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
	trans-1,3-Dichloropropene	5 U
	1,1,2-Trichloroethane	5 U
	4-Methyl-2-Pentanone	10 0
108-88-3		5 U
	Tetrachloroethene	250 E
	2-Hexanone	10 0 0
	Dibromochloromethane	5 U
	Chlorobenzene	5 0 5
	Ethylbenzene	5 0
100-42-5		5 U
75-25-2	Bromoform	ไ 5โช

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FORM I VOA

OLM03

			MW-01	
Lab Name: STL/CT		Contract:		_
Lab Code: STLCT	Case No.: 201080	SAS No.: SDG	No.: 201080	
Matrix: (soil/water)	WATER	Lab Sample ID	: 201080-1	
Sample wt/vol:	5.000 (g/mL) ML	Lab File ID:	M8794	
Level: (low/med)	LOW	Date Received	: 05/16/02	
% Moisture: not dec.		Date Analyzed	: 05/20/02	
GC Column: DB-624	ID: 0.53 (mm)	Dilution Facto	or: 1.0	_
Soil Extract Volume:	(uL)	Soil Aliquot V	/olume:	(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/I		
	1,1,2,2-Tetrack	hloroethane	5 U 5 U	

MW-01DL

Lab Name: STL/CT Contract:

Lab Code: STLCT Case No.: 201080 SAS No.: SDG No.: 201080

Matrix: (soil/water) WATER Lab Sample ID: 201080-1DL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M8814

Level: (low/med) LOW Date Received: 05/16/02

% Moisture: not dec. Date Analyzed: 05/21/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 2.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3Chloromethane	10 UJ
75-01-4Vinyl Chloride	10 05
74-83-9Bromomethane	10 07
75-00-3Chloroethane	10 05
75-35-41,1-Dichloroethene	10 05
67-64-1Acetone	20 05
75-15-0Carbon Disulfide	10 0 7
75-09-2Methylene Chloride	0.7 DJ
156-60-5trans-1,2-Dichloroethene	10 0
75-34-31,1-Dichloroethane	10 0
156-59-2cis-1,2-Dichloroethene	10 0
78-93-32-Butanone	20 05
67-66-3Chloroform	10 0
71-55-61,1,1-Trichloroethane	10 0
56-23-5Carbon Tetrachloride	10 0
71-43-2Benzene	10 0
107-06-21,2-Dichloroethane	10 0
108-05-4Vinyl Acetate	10 0
79-01-6Trichloroethene	13 D
78-87-51,2-Dichloropropane	10 0
75-27-4Bromodichloromethane	10 0
10061-01-5cis-1,3-Dichloropropene	10 0
10061-02-6trans-1,3-Dichloropropene	10 0
79-00-51,1,2-Trichloroethane	10 0.5
108-10-14-Methyl-2-Pentanone	20 0 1
108-88-3Toluene	10 0
127-18-4Tetrachloroethene	240 🗷
591-78-62-Hexanone	20/UJ
124-48-1Dibromochloromethane	10 0
108-90-7Chlorobenzene	10 0
100-41-4Ethylbenzene	10 0
100-42-5Styrene	_10 U
75-25-2Bromoform	10 0
	· · — — I — — I

Use circled result only FORM I VOA

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Lab Name: STL/CT		Contract:		MW-01DL	
Lab Code: STLCT	Case No.: 201080	SAS No.:	SDG No.:	201080	
Matrix: (soil/water	) WATER	Lab Sampl	le ID: 201	L080-1DL	
Sample wt/vol:	5.000 (g/mL) ML	Lab File	ID: M88	314	
Level: (low/med)	LOW	Date Rece	eived: 05/	16/02	
% Moisture: not dec	•	Date Anal	yzed: 05/	21/02	
GC Column: DB-624	ID: 0.53 (mm)	Dilution	Factor: 2	2.0	
Soil Extract Volume	:(uL)	Soil Aliq	uot Volum	ne:	(uL)
CAS NO.	COMPOUND	CONCENTRATION U (ug/L or ug/Kg)		Q	
	1,1,2,2-Tetracl	hloroethane		0 0	

MW-02

Lab Name: STL/CT Contract:

CAS NO. COMPOUND

Lab Code: STLCT Case No.: 201080 SAS No.: SDG No.: 201080

Matrix: (soil/water) WATER Lab Sample ID: 201080-2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M8795

Level: (low/med) LOW Date Received: 05/16/02

% Moisture: not dec. \_\_\_\_ Date Analyzed: 05/20/02

GC Column: DB-624 ID: 0.53 (mm) - Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

74-87-3Chloromethane	5 U
75-01-4Vinyl Chloride	5 0
74-83-9Bromomethane	5 u <b>J</b>
75-00-3Chloroethane	5   Ŭ <b>Ĵ</b>
75-35-41,1-Dichloroethene	5  <del>0</del>
67-64-1Acetone	າວັ  <del>ບັລ</del>
75-15-0Carbon Disulfide	5 0
75-09-2Methylene Chloride	5 U
156-60-5trans-1,2-Dichloroethene	5 U 5 U
75-34-31,1-Dichloroethane	5 U
156-59-2cis-1,2-Dichloroethene	19
78-93-32-Butanone	10 U J
67-66-3Chloroform	5 U
71-55-61,1,1-Trichloroethane	5 U
56-23-5Carbon Tetrachloride	5 U
71-43-2Benzene	ร์ บั
107-06-21,2-Dichloroethane	5 U 5 U 5 U
108-05-4Vinyl Acetate	ร์โซ
79-01-6Trichloroethene	9
78-87-51,2-Dichloropropane	5 <del>0</del>
75-27-4Bromodichloromethane	
10061-01-5cis-1,3-Dichloropropene	. 5 U 5 U 5 U
10061-02-6trans-1,3-Dichloropropene	5 U
79-00-51,1,2-Trichloroethane	5 U
108-10-14-Methyl-2-Pentanone	10 U T
108-88-3Toluene	5 U
127-18-4Tetrachloroethene	55
591-78-62-Hexanone	10 05
124-48-1Dibromochloromethane	5 <b> </b> U
108-90-7Chlorobenzene	l 5lu
100-41-4Ethylbenzene	5 U
100-42-5Styrene	5 U
75-25-2Bromoform	5 U

FORM I VOA

OLMO3.0



Lab Name: STL/CT		Contract:	MW-02	
Lab Hame. Billy Ci				- '
Lab Code: STLCT	Case No.: 201080	SAS No.: SI	OG No.: 201080	
Matrix: (soil/water)	WATER	Lab Sample	ID: 201080-2	
Sample wt/vol:	5.000 (g/mL) ML	Lab File ID	M8795	
Level: (low/med)	LOW	Date Receive	ed: 05/16/02	
% Moisture: not dec	•	Date Analyze	ed: 05/20/02	
GC Column: DB-624	ID: 0.53 (mm) -	Dilution Fac	ctor: 1.0	
Soil Extract Volume	:(uL)	Soil Aliquot	Volume:	_(ut.
CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) U		
	1,1,2,2-Tetrac Xylene (total)	hloroethane	5 U 5 U	

MW-03

Lab Name: STL/CT Contract:

Lab Code: STLCT Case No.: 201080 SAS No.: SDG No.: 201080

Matrix: (soil/water) WATER Lab Sample ID: 201080-3

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M8796

Level: (low/med) LOW Date Received: 05/16/02

% Moisture: not dec. Date Analyzed: 05/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L (

FORM I VOA

OLM03.0



EPA SAMPLE NO.

			MW-03
Lab Name: STL/CT		Contract:	
Lab Code: STLCT	Case No.: 201080	SAS No.: SDC	No.: 201080
Matrix: (soil/water)	WATER	Lab Sample II	): 201080-3
Sample wt/vol:	5.000 (g/mL) ML	Lab File ID:	M8796
Level: (low/med)	LOW	Date Received	l: 05/16/02
% Moisture: not dec.		Date Analyzed	1: 05/20/02
GC Column: DB-624	ID: 0.53 (mm)	Dilution Fact	or: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot	Volume:(uL
CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/	
	1,1,2,2-Tetrac Xylene (total)	hloroethane	5 U 5 U

FORM I VOA

EPA SAMPLE NO.

MW-04

Lab Name: STL/CT

Contract:

Lab Code: STLCT

Case No.: 201080 SAS No.:

SDG No.: 201080

Matrix: (soil/water) WATER

Lab Sample ID: 201080-4

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: M8799

Level: (low/med) LOW

Date Received: 05/16/02

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 05/20/02

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

74-87-3Chloromethane	5 U
75-01-4Vinyl Chloride	5   U
74-83-9Bromomethane	5 ប្រ
75-00-3Chloroethane	5   U <b>J</b>
75-35-41,1-Dichloroethene	5   U
67-64-1Acetone	10 U J
75-15-0Carbon Disulfide	5 U J
75-09-2Methylene Chloride	5   ປິ
156-60-5trans-1,2-Dichloroethene	5 U
75-34-31,1-Dichloroethane	5 U
156-59-2cis-1,2-Dichloroethene	5 U
78-93-32-Butanone	10 UJ
67-66-3Chloroform	
71-55-61,1,1-Trichloroethane	5   U 5   U 5   U 5   U
56-23-5Carbon Tetrachloride	5 U
71-43-2Benzene	5 U
107-06-21,2-Dichloroethane	5   U
108-05-4Vinyl Acetate	5 \ U
79-01-6Trichloroethene	5 U
78-87-51,2-Dichloropropane	5\U
75-27-4Bromodichloromethane	5 U
10061-01-5cis-1,3-Dichloropropene	5 U 5 U 5 U 5 U
10061-02-6trans-1,3-Dichloropropene	5 \ U
79-00-51,1,2-Trichloroethane	5 U
108-10-14-Methyl-2-Pentanone	10 U <b>J</b>
108-88-3Toluene	5 U
127-18-4Tetrachloroethene	5 <b> </b> U
591-78-62-Hexanone	10 U J
124-48-1Dibromochloromethane	5 U
108-90-7Chlorobenzene	5   บ
100-41-4Ethylbenzene	5 U
100-42-5Styrene	5 U
75-25-2Bromoform	5 <b>U</b>

FORM I VOA

OLM03.0

					Mv	<b>V-04</b>	
Lab Name: STI	L/CT		Contract:	Ì			
Lab Code: STI	CT Case No	0.: 201080	SAS No.:	SDG	No.: 20	1080	
Matrix: (soil	L/water) WATER		Lab S	ample ID:	201080	)-4	
Sample wt/vol	L: 5.000	(g/mL) ML	Lab F	ile ID:	M8799		
Level: (lov	w/med) LOW		Date 1	Received	: 05/16/	/02	
% Moisture: n	not dec.		Date 1	Analyzed	: 05/20/	02	
GC Column: DI	3-624 ID: 0	.53 - (mm)	Dilut	ion Facto	or: 1.0		
Soil Extract	Volume:	(uL)	Soil	Aliquot V	Volume:		(uL
CAS NO	D. COMI	POUND	CONCENTRATION (ug/L or ug/			Q	
	-51,1				5 U	J	

EPA SAMPLE NO.

**MW**-05

Lab Name: STL/CT Contract:

Lab Code: STLCT Case No.: 201080 SAS No.: SDG No.: 201080

Matrix: (soil/water) WATER Lab Sample ID: 201080-5

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M8800

Level: (low/med) LOW Date Received: 05/16/02

% Moisture: not dec. \_\_\_\_ Date Analyzed: 05/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L (

FORM I VOA

OLMO3.0



			1	M	IW-05	
Lab Name: STL/CT		Contract:	l.			
Lab Code: STLCT	Case No.: 201080	SAS No.:	SDG	No.: 2	01080	
Matrix: (soil/water)	WATER	Lab Samp	ple ID:	20108	10-5	
Sample wt/vol:	5.000 (g/mL) ML	Lab File	e ID:	M8800	)	
Level: (low/med)	LOW	Date Rec	ceived:	05/16	/02	
% Moisture: not dec.		Date Ana	lyzed:	05/20	/02	
GC Column: DB-624	ID: 0.53 (mm)	Dilution	. Facto	r: 1.0	)	
Soil Extract Volume:	(uL)	Soil Ali	.quot V	olume:		(uL
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg			Q	
	1,1,2,2-Tetrac Xylene (total)			_	U U	

EPA SAMPLE NO.

TB051602

Lab Name: STL/CT Contract:

Lab Code: STLCT Case No.: 201080 SAS No.: SDG No.: 201080

Matrix: (soil/water) WATER Lab Sample ID: 201080-6

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M8801

Level: (low/med) LOW Date Received: 05/16/02

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 05/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

74-87-3	Chloromethane	5 U
75-01-4	Vinyl Chloride	5 U
74-83-9	Bromomethane	[ 5 U <b>7</b>
	Chloroethane	5   105
75-35-4	1,1-Dichloroethene	5 U
67-64-1		10 0
	Carbon Disulfide	5 U T
	Methylene Chloride	
	trans-1,2-Dichloroethene	1 5  <del>0</del>
	1,1-Dichloroethane	5 U 5 U 5 U
	cis-1,2-Dichloroethene	-  5  <del>0</del>
	2-Butanone	10 0 5
	Chloroform	$\begin{bmatrix} 0.2 \end{bmatrix} $
	1,1,1-Trichloroethane	
	Carbon Tetrachloride	5 U 5 U
71-43-2		5 U
	1,2-Dichloroethane	5 U
	Vinyl Acetate	5 U 5 U
	Trichloroethene	5 U
	1,2-Dichloropropane	5 U
75-27-4	Bromodichloromethane	5 U
10061-01-5	cis-1,3-Dichloropropene	· 5 U
10061-02-6	trans-1,3-Dichloropropene	. 5 U 5 U
	1,1,2-Trichloroethane	5 U
	4-Methyl-2-Pentanone	10 07
108-88-3	Toluene	5 U
127-18-4	Tetrachloroethene	5 U
	2-Hexanone	10 05
124-48-1	Dibromochloromethane	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5		5 U
75-25-2	Bromoform	5 U

FORM I VOA

OLM03.0



Lab Na	ame: STL/CT		Contract:	TB051602
	·	Case No.: 201080	SAS No.: SD	G No.: 201080
Matri	k: (soil/water)	WATER	Lab Sample I	D: 201080-6
Sample	e wt/vol:	5.000 (g/mL) ML	Lab File ID:	M8801
Level	: (low/med)	LOW	Date Receive	d: 05/16/02
% Mois	sture: not dec.		Date Analyze	d: 05/20/02
GC Co	lumn: DB-624	ID:- 0.53 (mm)	Dilution Fac	tor: 1.0
Soil 1	Extract Volume:	(uL)	Soil Aliquot	Volume:(uL
	CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) UG	
		1,1,2,2-Tetrac	hloroethane	5 U 5 U

EPA SAMPLE NO.

FB051602

Lab Name: STL/CT Contract:

Lab Code: STLCT Case No.: 201080 SAS No.: SDG No.: 201080

Matrix: (soil/water) WATER Lab Sample ID: 201080-7

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M8802

Level: (low/med) LOW Date Received: 05/16/02

% Moisture: not dec. \_\_\_\_ Date Analyzed: 05/20/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

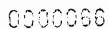
CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

75-01-4 74-83-9 75-00-3 75-35-4 75-15-0 75-15-0 75-09-2 156-60-5 75-34-3 75-66-3 71-55-6 71-43-2 107-06-2 108-05-4 79-01-6 75-27-4 10061-01-5 10061-02-6 108-88-3	Carbon DisulfideMethylene Chloridetrans-1,2-Dichloroethenetrans-1,2-Dichloroethenecis-1,2-Dichloroethene2-ButanoneChloroform1,1,1-TrichloroethaneCarbon TetrachlorideBenzene1,2-DichloroethaneVinyl AcetateTrichloroethene1,2-DichloropropaneBromodichloromethanetrans-1,3-Dichloropropenetrans-1,3-Dichloropropenetrans-1,3-DichloropropeneToluene	
10061-02-6 79-00-5 108-10-1 108-88-3 127-18-4 591-78-6 124-48-1 108-90-7 100-41-4	trans-1,3-Dichloropropene1,1,2-Trichloroethane4-Methyl-2-PentanoneTolueneTetrachloroethene2-HexanoneDibromochloromethaneChlorobenzeneEthylbenzene	5 U <u> </u>

FORM I VOA

OLM03.0



Lab Name: STL/CT	Contract:	FB051602
Lab Code: STLCT Case No.	: 201080 SAS No.:	SDG No.: 201080
Matrix: (soil/water) WATER	Lab Sam	mple ID: 201080-7
Sample wt/vol: 5.000 (	g/mL) ML Lab Fil	le ID: M8802
Level: (low/med) LOW	Date Re	eceived: 05/16/02
% Moisture: not dec.	_ Date Ar	nalyzed: 05/20/02
GC Column: DB-624 ID: 0.53	3 (mm) Dilutio	on Factor: 1.0
Soil Extract Volume:	(uL) Soil Al	liquot Volume:(uL
CAS NO. COMPO	CONCENTRATION UND (ug/L or ug/k	
79-34-51,1,2		5 U 5 U

Case No.: 201080 SAS No.:

DUP051602

Lab Name: STL/CT

Lab Code: STLCT

Contract:

SDG No.: 201080

Matrix: (soil/water) WATER

Lab Sample ID: 201080-8

Sample wt/vol:

5.000 (g/mL) ML

Lab File ID: M8803

Level:

(low/med) LOW

Date Received: 05/16/02

% Moisture: not dec.

Date Analyzed: 05/20/02

GC Column: - DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

74-87-3Chloromethane	5 U
75-01-4Vinyl Chloride	5 U
74-83-9Bromomethane	5 0 3
75-00-3Chloroethane	5 0 0 7
75-35-41,1-Dichloroethene	5 U
67-64-1Acetone	10 05
75-15-0Carbon Disulfide	5 0 5
75-09-2Methylene Chloride	5 0
156-60-5trans-1,2-Dichloroethene	l šl <del>ŭ</del>
75-34-31,1-Dichloroethane	5 U 5 U
156-59-2cis-1,2-Dichloroethene	S U J
78-93-32-Butanone	10 0 5
67-66-3Chloroform	
71-55-61,1,1-Trichloroethane	5 U 5 U 5 U 5 U 5 U
56-23-5Carbon Tetrachloride	ا قاق
71-43-2Benzene	ا قاق
107-06-21,2-Dichloroethane	l 5  <del>0</del>
108-05-4Vinyl Acetate	5 0
79-01-6Trichloroethene	13
78-87-51,2-Dichloropropane	5 0
75-27-4Bromodichloromethane	5 0
10061-01-5cis-1,3-Dichloropropene	5 U 5 U 5 U
10061-01-5trans-1,3-Dichloropropene	5 U
79-00-51,1,2-Trichloroethane	5 0
108-10-14-Methyl-2-Pentanone	10 05
108-10-1Toluene	15/05
127-18-4Tetrachloroethene	250 E
591-78-62-Hexanone	10 0 5
124-48-1Dibromochloromethane	- 500
108-90-7Chlorobenzene	- l — —
100-41-4Ethylbenzene	1 J 5 U
100-41-4Styrene	-
75-25-2Bromoform	- 5 0
13-23-2BIOMOTOTM	-\

USE result for circles compared from dilutel analysis
FORM I VOA

OLM03.0

## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: STL/CT		Contract:	DUP051602	
Lab Code: STLCT	Case No.: 201080	SAS No.: SDO	No.: 201080	
Matrix: (soil/water)	WATER	Lab Sample II	D: 201080-8	
Sample wt/vol:	5.000 (g/mL) ML	Lab File ID:	M8803	
Level: (low/med)	LOW	Date Received	d: 05/16/02	
% Moisture: not dec.		Date Analyzed	1: 05/20/02	
GC Column: DB-624	ID: 0.53 (mm)	Dilution Fact	or: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot	Volume:(u	다)
CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/	•	
	1,1,2,2-Tetracl	hloroethane	5 U 5 U	

DUP051602DL

Lab Name: STL/CT Contract:

Lab Code: STLCT Case No.: 201080 SAS No.: SDG No.: 201080

Matrix: (soil/water) WATER Lab Sample ID: 201080-8DL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M8816

Level: (low/med) LOW Date Received: 05/16/02

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 05/21/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 2.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3Chloromethane	10 UJ
75-01-4Vinyl Chloride	10 0
74-83-9Bromomethane	10 0 7
75-00-3Chloroethane	10 05
75-35-41,1-Dichloroethene	10 0
67-64-1Acetone	20 05
75-15-0Carbon Disulfide	10 0 5
75-09-2Methylene Chloride	0.7 [0]
156-60-5trans-1,2-Dichloroethene	10 0
75-34-31,1-Dichloroethane	10 0
156-59-2cis-1,2-Dichloroethene	10 0
78-93-32-Butanone	20 U J
67-66-3Chloroform	
71-55-61,1,1-Trichloroethane	10 U 10 U
56-23-5Carbon Tetrachloride	
71-43-2Benzene	10 U
	10 U
107-06-21,2-Dichloroethane	10 U
108-05-4Vinyl Acetate	10 U
79-01-6Trichloroethene	13 D
78-87-51,2-Dichloropropane	10 U
75-27-4Bromodichloromethane	10 U
10061-01-5cis-1,3-Dichloropropene	10 U
10061-02-6trans-1,3-Dichloropropene	10 U
79-00-51,1,2-Trichloroethane	10 U J
108-10-14-Methyl-2-Pentanone	20 U J
108-88-3Toluene	10 U
127-18-4Tetrachloroethene	240 8
591-78-62-Hexanone	20 0 5
124-48-1Dibromochloromethane	10 U
108-90-7Chlorobenzene	10 U
100-41-4Ethylbenzene	-10 U
100-42-5Styrene	10 U
75-25-2Bromoform	10 U

Use circled result only

FORM I VOA

OLM03.0

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP051602DL Lab Name: STL/CT Contract: Lab Code: STLCT Case No.: 201080 SAS No.: SDG No.: 201080 Matrix: (soil/water) WATER Lab Sample ID: 201080-8DL Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M8816 (low/med) Date Received: 05/16/02 Level: LOW % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 05/21/02 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 2.0 Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND Q 79-34-5-----1,1,2,2-Tetrachloroethane\_ -----Xylene (total)\_\_\_\_\_ 10 U 10 U

# DATA USABILITY SUMMARY REPORT (DUSR) SUPERIOR GROUP, INC. J&H SITE, CARLE PLACE, NEW YORK SOIL SAMPLE ANALYSIS ENVIRONMENTAL RESOURCES MANAGEMENT (ERM) PROJECT NUMBER R4906.00.01 ACCUTEST LABORATORIES JOB NUMBER N20424

#### Deliverables:

The above referenced summary data package and analytical data package for sixteen (16) soil samples, one (1) blind field duplicate sample, one (1) field blank, one (1) trip blank and one (1) set of matrix spike/matrix spike duplicate (MS/MSD) samples contain all required deliverables as stipulated under the most current New York State Analytical Services Protocol (ASP) for Category B deliverables for Non-United States Environmental Protection Agency (USEPA) Contract Laboratory Protocol (CLP) methods. The sample specific analysis performed included Target Compound List (TCL) Volatile Organic Compounds (VOC) analyzed by USEPA SW-846 Method 8260B. All samples were analyzed in accordance with "Test Methods for Evaluation Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions." The data have been evaluated according to the protocols and quality control (QC) requirements of the analytical methods, the ASP, the USEPA CLP National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B and the reviewer's professional judgment.

This report pertains to the following samples:

SB-24 (10-11) SB-28 (5-7) SB-26 (5-7) MS / MSD SB-25 (1-3) SB-29 (1-3) FB081602 (field blank) SB-25 (5-7) SB-29 (5-7) TB081602 (trip blank) SB-26 (1-3) SB-30 (1-3)	<u>Samples</u>		QC Samples
SB-26 (5-7) SB-30 (5-7) SB-27 (1-3) SB-31 (1-3) SB-27 (5-7) SB-31 (5-7)	SB-24 (10-11) SB-25 (1-3) SB-25 (5-7) SB-26 (1-3) SB-26 (5-7) SB-27 (1-3)	-11) SB-28 (5-7) 3) SB-29 (1-3) 7) SB-29 (5-7) 3) SB-30 (1-3) 7) SB-30 (5-7) 3) SB-31 (1-3)	FB081602 (field blank)

## **Organics**

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times both technical and procedural and sample preservation
- Surrogate Compound recoveries, summary and data
- MS/MSD results, recoveries, summary and data
- Laboratory Control Sample (LCS) recoveries, summary and data
- · Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Blind Field Duplicate results
- · Field Blank results
- Trip Blank results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above have been judged to be in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have evaluated according to the procedures outlined above and qualified accordingly.

#### **Volatiles**

- The percent recovery (%R) of several surrogate compounds were outside QC limits for the batch QC applicable to samples contained in this Job Number. No qualification of the sample data is required as the batch QC has no bearing on the sample contained in this Job Number. Due to internal standard deficiencies the trip blank and field blank were reanalyzed. These reanalyses contained deficient surrogate recoveries. Again, no qualification of the sample data is required as all %R were within QC limit for all soil samples.
- The following table lists blanks (method, trip and field blanks), blank contaminants with concentrations and the samples associated with the blanks. Detected sample concentrations of

methylene chloride, acetone, toluene or 2-butanone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels into account) are negated and qualified as a non-detect. For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Blank	Contaminant	Concentration (Action Level)	Associated Samples	
VG2198- MB1	methylene chloride	1.9 (19 μg/kg)	SB-26 (5-7)	

• The following table lists compounds that exceeded 15 percent relative standard deviation (%RSD) for relative response factors (RRF) in the initial calibration (ICAL) or 20 percent difference (%D) between the initial calibration average response factor and the continuing calibration verification (CCV) response factor. Associated field samples are also listed. Positive results for these compounds in associated samples are considered estimated and flagged "J". All non-detect results for the compound of interest in the appropriate samples are flagged "UJ". Calibrations applicable to quality control samples only have not been listed.

Calibration	Compound	Deficiency	Associated Samples
ICAL 08/21/02 10:09-14:58	acetone 2-butanone	%RSD=19.19 %RSD=24.53	All soil samples except SB-24 (1-2), SB-24 (10-11) and SB-24 (1-2)DL
CCV 08/23/02 @ 17:44	4-methyl-2-pentanone	%D=20.7	SB-26 (1-3), SB-29 (1-3)
ICAL 08/19/02 19:36-23:08	acetone 2-hexanone	%RSD=32.48 %RSD=18.19	SB-24 (1-2), SB-24 (10-11)
ICAL 08/24/02 17:46-21:47	4-methyl-2-pentanone 2-hexanone styrene	%RSD=16.13 %RSD=22.92 %RSD=16.19	FB081602, TB081602
CCV 09/05/02 @ 01:23	carbon tetrachloride 1,2-dichloroethane	%D=28.6 %D=25.4	FB081602 RE, TB081602 RE
ICAL 08/15/02 12:58-19:06	bromoform	%RSD=15.32	SB-24 (1-2)DL

- Sample SB-24 (1-2) was reanalyzed at a 100-fold (100x) dilution due to target compound concentrations of tetrachloroethene exceeding the linear calibration range of the instrument in the initial analysis. The laboratory has reported all final on one analysis data sheets (Form I). No qualification of the sample data is required.
- The area response for the internal standard 1,4-dichlorobenzene-d4 (DCB) was below QC limits FB081602 and TB081602. These samples were reanalyzed outside holding time and acceptable, but still slightly low responses were observed. The initial analysis results should be utilized for both samples. Results for compounds using DCB for quantitation are considered estimated and flagged "J" for a positive detect while non-detects are flagged "UJ". No qualification is required to the soil samples.
- Tetrachloroethene was not detected in sample SB-26 (5-7), but was positively identified in the associated blind field duplicate DUP081602 (1.8  $\mu g/kg$ ). As a result, the concentration of tetrachloroethene in each sample is considered estimated and flagged "UJ" and "J" respectively.

## Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:

Andrew J Coenen

Project 8cientist

Dated: 24 Sptenber 2002

Client Sample ID: DUP081602

Lab Sample ID:

N20424-1

Matrix: Method: SO - Soil

SW846 8260B

DF

Date Sampled:

08/16/02

Date Received: 08/17/02 Percent Solids: 96.8

Project:

Johnson & Hoffman, Carle Place, NY

File ID G51266.D Run #1

**Analyzed** 08/22/02

By SJM **Prep Date** n/a

**Prep Batch** 

**Analytical Batch** 

VG2199 n/a

Run #2

**Initial Weight** 

Run #1

5.0 g

Run #2

## **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	10	ug/kg J
71-43-2	Benzene	ND	1.0	ug/kg
75-27-4	Bromodichloromethane	ND	5.2	ug/kg
75-25-2	Bromoform	ND	5.2	ug/kg
74-83-9	Bromomethane	ND	5.2	ug/kg
78-93-3	2-Butanone (MEK)	ND	10	ug/kg J
75-15-0	Carbon disulfide	ND	5.2	ug/kg
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg
108-90-7	Chlorobenzene	ND	5.2	ug/kg
75-00-3	Chloroethane	ND	5.2	ug/kg
67-66-3	Chloroform	ND	5.2	ug/kg
74-87-3	Chloromethane	ND	5.2	ug/kg
124-48-1	Dibromochloromethane	ND	5.2	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.2	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.2	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.2	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg
100-41-4	Ethylbenzene	ND	1.0	ug/kg
591-78-6	2-Hexanone	ND	5.2	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	ug/kg
75-09-2	Methylene chloride	ND	5.2	ug/kg
100-42-5	Styrene	ND	5.2	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg
127-18-4	Tetrachloroethene	1.8	5.2	ug/kg J
108-88-3	Toluene	ND	1.0	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg
79-01-6	Trichloroethene	ND	5.2	ug/kg

14

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: DUP081602

Lab Sample ID: Matrix:

N20424-1 SO - Soil

**Date Sampled:** 08/16/02 Date Received: 08/17/02

Method:

SW846 8260B

Percent Solids: 96.8

Project:

Johnson & Hoffman, Carle Place, NY

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.2	ug/kg
1330-20-7	Xylene (total)	ND	2.1	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-124%
17060-07-0	1,2-Dichloroethane-D4	84%		62-130%
2037-26-5	Toluene-D8	91%		75-125%
460-00-4	4-Bromofluorobenzene	115%		67-141%

Client Sample ID: SB-24 (1-2) Lab Sample ID: N20424-2 Matrix:

SO - Soil SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 Date Received: 08/17/02

Percent Solids: 88.0

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	S37072.D	1	08/20/02	KNV	n/a	n/a	VS1273
Run #2	T37736.D	1	08/21/02	GTT	n/a	n/a	VT1238

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g		
Run #2	5.0 g	5.0 ml	50.0 ul

## **VOA TCL List**

Method:

Project:

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	<b>11</b>	ug/kg J
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.7	ug/kg
75-25-2	Bromoform	ND	5.7	ug/kg
74-83-9	Bromomethane	ND	5.7	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg
75-15-0	Carbon disulfide	ND	5.7	ug/kg
56-23-5	Carbon tetrachloride	ND	5.7	ug/kg
108-90-7	Chlorobenzene	ND	5.7	ug/kg
75-00-3	Chloroethane	ND	5.7	ug/kg
67-66-3	Chloroform	ND	5.7	ug/kg
74-87-3	Chloromethane	ND	5.7	ug/kg
124-48-1	Dibromochloromethane	ND	5.7	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.7	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.7	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.7	ug/kg
156-59-2	cis-1,2-Dichloroethene	32.3	5.7	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.7	ug/kg
78-8 <b>7</b> -5	1,2-Dichloropropane	ND	5.7	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.7	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	ug/kg
75-09-2	Methylene chloride	ND	ි 5.7	ug/kg
100-42-5	Styrene	ND	5.7	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
127-18-4	Tetrachloroethene	20900 a	570	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.7	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.7	ug/kg
79-01-6	Trichloroethene	129	5.7	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client Sample ID: SB-24 (1-2) Lab Sample ID: N20424-2

Matrix: Method:

Project:

SO - Soil SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Percent Solids: 88.0

## **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND		ug/kg
1330-20-7	Xylene (total)	ND		ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	91%	70-124%
17060-07-0	1,2-Dichloroethane-D4	81%	102%	62-130%
2037-26-5	Toluene-D8	94%	95%	75-125%
460-00-4	4-Bromofluorobenzene	91%	106%	67-141%

(a) Result is from Run# 2

**Client Sample ID:** SB-24 (10-11) Lab Sample ID: N20424-3

Matrix: SO - Soil Method:

SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 Date Received: 08/17/02

Percent Solids: 95.7

**Analytical Batch** File ID DF Analyzed **Prep Date Prep Batch** By KNV VS1273 Run #1 S37075.D 08/20/02 n/a n/a 1

Run #2

Project:

**Initial Weight** 

Run #1 4.9 g

Run #2

## **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg J
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.3	ug/kg
75-25-2	Bromoform	ND	5.3	ug/kg
74-83-9	Bromomethane	ND	5.3	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg
75-15-0	Carbon disulfide	ND	5.3	ug/kg
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg
108-90-7	Chlorobenzene	ND	5.3	ug/kg
75-00-3	Chloroethane	ND	5.3	ug/kg
67-66-3	Chloroform	ND	5.3	ug/kg
74-87-3	Chloromethane	ND	5.3	ug/kg
124-48-1	Dibromochloromethane	ND	5.3	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.3	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.3	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.3	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg
100-41-4	Ethylbenzene	ND :	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.3	ug/kg 丁
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.3	ug/kg
75-09-2	Methylene chloride	ND	5.3	ug/kg
100-42-5	Styrene	ND	5.3	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg
127-18-4	Tetrachloroethene	149	5.3	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg
79-01-6	Trichloroethene	3.0	5.3	ug/kg J

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-24 (10-11) Lab Sample ID: N20424-3

Matrix:

Method:

SO - Soil

SW846 8260B

**Date Sampled:** 08/16/02 Date Received: 08/17/02

Percent Solids: 95.7

Project: Johnson & Hoffman, Carle Place, NY

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.3	ug/kg
1330-20-7	Xylene (total)	ND	2.1	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-124%
17060-07-0	1,2-Dichloroethane-D4	88%		62-130%
2037-26-5	Toluene-D8	87%		75-125%
460-00-4	4-Bromofluorobenzene	85%		67-141%

Client Sample ID: SB-25 (1-3)
Lab Sample ID: N20424-4
Matrix: SO - Soil

SO - Soil SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Percent Solids: 91.3

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 G51267.D 1 08/22/02 SJM n/a n/a VG2199

Run #2

Method:

Project:

Initial Weight

Run #1 5.0 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	1 <b>1</b>	ug/kg 丁
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.5	ug/kg
75-25-2	Bromoform	ND	5.5	ug/kg
74-83-9	Bromomethane	ND	5.5	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg 丁
75-15-0	Carbon disulfide	ND	5.5	ug/kg
56-23-5	Carbon tetrachloride	ND	5.5	ug/kg
108-90-7	Chlorobenzene	ND	5.5	ug/kg
75-00-3	Chloroethane	ND	5.5	ug/kg
67-66-3	Chloroform	ND	5.5	ug/kg
74-87-3	Chloromethane	ND	5.5	ug/kg
124-48-1	Dibromochloromethane	ND	5.5	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.5	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.5	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.5	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.5	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.5	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.5	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.5	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	ug/kg
75-09-2	Methylene chloride	ND	5.5	ug/kg
100-42-5	Styrene	ND	5.5	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
127-18-4	Tetrachloroethene	14.3	5.5	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.5	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.5	ug/kg
79-01-6	Trichloroethene	ND	5.5	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-25 (1-3) Lab Sample ID: N20424-4 Matrix: SO - Soil

SO - Soil SW846 8260B Date Received: 08/1 Percent Solids: 91.3

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Method: Project:

Johnson & Hoffman, Carle Place, NY

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.5	ug/kg
1330-20-7	Xylene (total)	ND	2.2	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		70-124%
17060-07-0	1,2-Dichloroethane-D4	76%		62-130%
2037-26-5	Toluene-D8	92%		75-125%
460-00-4	4-Bromofluorobenzene	114%		67-141%

Client Sample ID: SB-25 (5-7) Lab Sample ID: N20424-5

Matrix:
Method:

Project:

SO - Soil SW846 8260B

Johnson & Hoffman, Carle Place, NY

Date Sampled: 08/16/02

**Date Received:** 08/17/02 **Percent Solids:** 97.4

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 G51268.D 1 08/22/02 SJM n/a n/a VG2199

Run #2

Initial Weight

Run #1 4.9 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	10	ug/kg J
71-43-2	Benzene	ND	1.0	ug/kg
75-27-4	Bromodichloromethane	ND	5.2	ug/kg
75-25-2	Bromoform	ND	5.2	ug/kg
74-83-9	Bromomethane	ND	5.2	ug/kg
78-93-3	2-Butanone (MEK)	ND	10	ug/kg J
75-15-0	Carbon disulfide	ND	5.2	ug/kg
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg
108-90-7	Chlorobenzene	ND	5.2	ug/kg
75-00-3	Chloroethane	ND	5.2	ug/kg
67-66-3	Chloroform	ND	5.2	ug/kg
74-87-3	Chloromethane	ND	5.2	ug/kg
124-48-1	Dibromochloromethane	ND	5.2	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.2	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.2	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.2	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg
100-41-4	Ethylbenzene	ND	1.0	ug/kg
591-78-6	2-Hexanone	ND	5.2	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	ug/kg
75-09-2	Methylene chloride	ND	5.2	ug/kg
100-42-5	Styrene	ND	5.2	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg
127-18-4	Tetrachloroethene	ND	5.2	ug/kg
108-88-3	Toluene	ND	1.0	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg
79-01-6	Trichloroethene	ND	5.2	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-25 (5-7) Lab Sample ID:

Matrix:

Method:

Project:

N20424-5

SO - Soil SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 Date Received: 08/17/02 Percent Solids: 97.4

CAS No.	Compound	Result	RL	Units Q
75-01-4 1330-20-7	Vinyl chloride Xylene (total)	ND ND	5.2 2.1	ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83 %		70-124%
17060-07-0	1,2-Dichloroethane-D4	73%		62-130%
2037-26-5	Toluene-D8	93%		75-125%
460-00-4	4-Bromofluorobenzene	113%		67-141%

Client Sample ID: SB-26 (1-3)
Lab Sample ID: N20424-6
Matrix: SO - Soil

SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Percent Solids: 94.5

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 G51330.D 1 08/24/02 SJM n/a n/a VG2201

Run #2

Method:

Project:

**Initial Weight** 

Run #1 4.8 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg J
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.5	ug/kg
75-25-2	Bromoform	ND	5.5	ug/kg
74-83-9	Bromomethane	ND	5.5	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg
75-15-0	Carbon disulfide	ND	5.5	ug/kg
56-23-5	Carbon tetrachloride	ND	5.5	ug/kg
108-90-7	Chlorobenzene	ND	5.5	ug/kg
75-00-3	Chloroethane	ND	5.5	ug/kg
67-66-3	Chloroform	ND	5.5	ug/kg
74-87-3	Chloromethane	ND	5.5	ug/kg
124-48-1	Dibromochloromethane	ND	5.5	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.5	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.5	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.5	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.5	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.5	ug/kg
78-8 <b>7</b> -5	1,2-Dichloropropane	ND	5.5	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.5	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)		5.5	ug/kg J
75-09-2	Methylene chloride	ND	5.5	ug/kg
100-42-5	Styrene	ND	5.5	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
127-18-4	Tetrachloroethene	9.4	5.5	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.5	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.5	ug/kg
79-01-6	Trichloroethene	ND	5.5	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-26 (1-3) Lab Sample ID:

N20424-6

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Matrix: Method: SO - Soil SW846 8260B

Percent Solids: 94.5

Project:

Johnson & Hoffman, Carle Place, NY

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.5	ug/kg
1330-20-7	Xylene (total)	ND	2.2	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-124%
17060-07-0	1,2-Dichloroethane-D4	79%		62-130%
2037-26-5	Toluene-D8	94%		75-125%
460-00-4	4-Bromofluorobenzene	115%		67-141%

Client Sample ID: SB-26 (5-7)

Lab Sample ID: N20424-7

Matrix: SO - Soil Method: SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Percent Solids: 95.9

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 G51240.D 1 08/21/02 SJM n/a n/a VG2198

Run #2

Project:

**Initial Weight** 

Run #1 4.9 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg 丁
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.3	ug/kg
75-25-2	Bromoform	ND	5.3	ug/kg
74-83-9	Bromomethane	ND	5.3	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg J
75-15-0	Carbon disulfide	ND	5.3	ug/kg
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg
108-90-7	Chlorobenzene	ND	5.3	ug/kg
75-00-3	Chloroethane	ND	5.3	ug/kg
67-66-3	Chloroform	ND	5.3	ug/kg
74-87-3	Chloromethane	ND	5.3	ug/kg
124-48-1	Dibromochloromethane	ND	5.3	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.3	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.3	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.3	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.3	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.3	ug/kg
75-09-2	Methylene chloride	ND	5.3	ug/kg
100-42-5	Styrene	ND	5.3	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg
127-18-4	Tetrachloroethene	ND	5.3	ug/kg J
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg
79-01-6	Trichloroethene	ND	5.3	ug/kg

32

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Date Sampled:** 08/16/02

Date Received: 08/17/02

Percent Solids: 95.9

Client Sample ID: SB-26 (5-7)

Lab Sample ID: N20424-7
Matrix: SO - Soil

Method:

SW846 8260B

Project:

Johnson & Hoffman, Carle Place, NY

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.3	ug/kg
1330-20-7	Xylene (total)	ND	2.1	ug/kg
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		70-124 %
17060-07-0	1,2-Dichloroethane-D4	71%		62-130 %
2037-26-5	Toluene-D8	91%		75-125 %
460-00-4	4-Bromofluorobenzene	113%		67-141 %

Client Sample ID: SB-27 (1-3) Lab Sample ID: N20424-8 Matrix:

SO - Soil SW846 8260B **Date Sampled:** 08/16/02 Date Received: 08/17/02 Percent Solids: 92.9

Method: Project:

Johnson & Hoffman, Carle Place, NY

File ID DF Analyzed By **Prep Date Prep Batch Analytical Batch** G51274.D 08/22/02 SJM Run #1

Run #2

1

n/a

n/a

VG2199

**Initial Weight** 

Run #1 4.7 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg 丁
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.7	ug/kg
75-25-2	Bromoform	ND	5.7	ug/kg
74-83-9	Bromomethane	ND	5.7	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg 丁
75-15-0	Carbon disulfide	ND	5.7	ug/kg
56-23-5	Carbon tetrachloride	ND	5.7	ug/kg
108-90-7	Chlorobenzene	ND	5.7	ug/kg
75-00-3	Chloroethane	ND	5.7	ug/kg
67-66-3	Chloroform	ND	5.7	ug/kg
74-87-3	Chloromethane	ND	5.7	ug/kg
124-48-1	Dibromochloromethane	ND	5.7	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.7	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.7	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.7	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.7	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.7	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.7	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.7	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	ug/kg
75-09-2	Methylene chloride	ND	5.7	ug/kg
100-42-5	Styrene	ND	5.7	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
127-18-4	Tetrachloroethene	9.8	5.7	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.7	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.7	ug/kg
79-01-6	Trichloroethene	ND	5.7	ug/kg

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

35

N = Indicates presumptive evidence of a compound

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

Client Sample ID: SB-27 (1-3) Lab Sample ID: N20424-8

Matrix: Method:

Project:

SO - Soil SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Percent Solids: 92.9

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.7	ug/kg
1330-20-7	Xylene (total)	ND	2.3	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-124%
17060-07-0	1,2-Dichloroethane-D4	75%		62-130%
2037-26-5	Toluene-D8	92%		75-125%
460-00-4	4-Bromofluorobenzene	121%		67-141%

Client Sample ID: SB-27 (5-7) Lab Sample ID: N20424-9

Matrix: Method: SO - Soil

SW846 8260B

Johnson & Hoffman, Carle Place, NY

Date Sampled: 08/16/02 08/17/02

Date Received: Percent Solids: 98.0

File ID DF Analyzed Вy **Prep Date** Prep Batch **Analytical Batch** G51275.D SJM VG2199 1 08/22/02 n/a n/a Run #1

Run #2

Project:

**Initial Weight** 

Run #1 4.7 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg 丁
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.4	ug/kg
75-25-2	Bromoform	ND	5.4	ug/kg
74-83-9	Bromomethane	ND	5.4	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg J
75-15-0	Carbon disulfide	ND	5.4	ug/kg
56-23-5	Carbon tetrachloride	ND	5.4	ug/kg
108-90-7	Chlorobenzene	ND	5.4	ug/kg
75-00-3	Chloroethane	ND	5.4	ug/kg
67-66-3	Chloroform	ND	5.4	ug/kg
74-87-3	Chloromethane	ND	5.4	ug/kg
124-48-1	Dibromochloromethane	ND	5.4	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.4	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.4	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.4	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.4	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.4	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.4	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.4	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	ug/kg
75-09-2	Methylene chloride	ND	5.4	ug/kg
100-42-5	Styrene	ND	5.4	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	ug/kg
127-18-4	Tetrachloroethene	ND	5.4	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.4	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.4	ug/kg
79-01-6	Trichloroethene	ND	5.4	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-27 (5-7)

Lab Sample ID: N

N20424-9

Matrix: Method: SO - Soil SW846 8260B

Project: Johnson & Hoffman, Carle Place, NY

Date Sampled: 08/16/02 Date Received: 08/17/02 Percent Solids: 98.0

CAS No.	Compound	Result	RL	Units Q
75-01-4 1330-20-7	Vinyl chloride Xylene (total)	ND ND	5.4 2.2	ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		70-124%
17060-07-0	1,2-Dichloroethane-D4	73%		62-130%
2037-26-5	Toluene-D8	93%		75-125%
460-00-4	4-Bromofluorobenzene	114%		67-141%

By

SJM

n/a

Client Sample ID: SB-28 (1-3) Lab Sample ID: N20424-10

File ID

G51278.D

Matrix: Method:

Project:

SO - Soil

SW846 8260B

DF

Johnson & Hoffman, Carle Place, NY

Analyzed

08/22/02

**Date Sampled:** 08/16/02

**Date Received:** 08/17/02 **Percent Solids:** 96.6

n/a

Prep Date Prep Batch Analytical Batch

VG2199

Run #1 Run #2

Initial Weight

Run #1

4.7 g

Run #2

## **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg J
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.5	ug/kg
75-25-2	Bromoform	ND	5.5	ug/kg
74-83-9	Bromomethane	ND	5.5	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg 丁
75-15-0	Carbon disulfide	ND	5.5	ug/kg
56-23-5	Carbon tetrachloride	ND	5.5	ug/kg
108-90-7	Chlorobenzene	ND	5.5	ug/kg
75-00-3	Chloroethane	ND	5.5	ug/kg
67-66-3	Chloroform	ND	5.5	ug/kg
74-87-3	Chloromethane	ND	5.5	ug/kg
124-48-1	Dibromochloromethane	ND	5.5	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.5	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.5	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.5	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.5	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.5	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.5	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.5	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	ug/kg
75-09-2	Methylene chloride	ND	5.5	ug/kg
100-42-5	Styrene	ND	5.5	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
127-18-4	Tetrachloroethene	ND	5.5	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.5	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.5	ug/kg
79-01-6	Trich1oroethene	ND	5.5	ug/kg

41

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-28 (1-3)

Lab Sample ID: Matrix:

Method:

Project:

N20424-10 SO - Soil

SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02

**Date Received:** 08/17/02

Percent Solids: 96.6

CAS No.	Compound	Result	RL	Units Q
75-01-4 1330-20-7	Vinyl chloride Xylene (total)	ND ND	5.5 2.2	ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7 17060-07-0 2037-26-5	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8	84% 80% 93%		70-124% 62-130% 75-125%
460-00-4	4-Bromofluorobenzene	117%		67-141%

Client Sample ID: SB-28 (5-7)

File ID

Lab Sample ID:

N20424-11

Matrix: Method: SO - Soil

SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02

Date Received: 08/17/02 Percent Solids: 94.7

**Prep Date Prep Batch Analytical Batch** Analyzed By

Run #1 Run #2

G51279.D

DF 1

SJM

08/22/02

n/a

n/a

VG2199

Project:

**Initial Weight** 

Run #1 Run #2

4.5 g

**VOA TCL List** 

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	12	ug/kg 丁
71-43-2	Benzene	ND	1.2	ug/kg
75-27-4	Bromodichloromethane	ND	5.9	ug/kg
75-25-2	Bromoform	ND	5.9	ug/kg
74-83-9	Bromomethane	ND	5.9	ug/kg
78-93-3	2-Butanone (MEK)	ND	12	ug/kg 丁
75-15-0	Carbon disulfide	ND	5.9	ug/kg
56-23-5	Carbon tetrachloride	ND	5.9	ug/kg
108-90-7	Chlorobenzene	ND	5.9	ug/kg
75-00-3	Chloroethane	ND	5.9	ug/kg
67-66-3	Chloroform	ND	5.9	ug/kg
74-87-3	Chloromethane	ND	5.9	ug/kg
124-48-1	Dibromochloromethane	ND	5.9	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.9	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.9	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.9	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.9	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.9	ug/kg
78-87 <b>-</b> 5	1,2-Dichloropropane	ND	5.9	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	ug/kg
100-41-4	Ethylbenzene	ND	1.2	ug/kg
591-78-6	2-Hexanone	ND	5.9	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	ug/kg
75-09-2	Methylene chloride	ND	5.9	ug/kg
100-42-5	Styrene	ND	5.9	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
127-18-4	Tetrachloroethene	ND	5.9	ug/kg
108-88-3	Toluene	ND	1.2	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.9	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.9	ug/kg
79-01-6	Trichloroethene	ND	5.9	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-28 (5-7) Lab Sample ID: N20424-11

Matrix: Method:

Project:

SO - Soil SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 Date Received: 08/17/02

Percent Solids: 94.7

CAS No.	Compound	Result	RL	Units Q
75-01-4 1330-20-7	Vinyl chloride Xylene (total)	ND ND	5.9 2.3	ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	85% 77% 93% 117%		70-124% 62-130% 75-125% 67-141%

Client Sample ID: SB-29 (1-3) Lab Sample ID: N20424-12

Matrix: Method:

Project:

SO - Soil SW846 8260B

SW 840 8.

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Percent Solids: 94.6

File ID DF Analyzed By **Prep Date Prep Batch Analytical Batch** G51331.D 08/24/02 SJM n/a n/a VG2201 Run #1 1 Run #2

Initial Weight

Run #1 Run #2 4.8 g

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg 丁
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.5	ug/kg
75-25-2	Bromoform	ND	5.5	ug/kg
74-83-9	Bromomethane	ND	5.5	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg J
75-15-0	Carbon disulfide	ND	5.5	ug/kg
56-23-5	Carbon tetrachloride	ND	5.5	ug/kg
108-90-7	Chlorobenzene	ND	5.5	ug/kg
75-00-3	Chloroethane	ND	5.5	ug/kg
67-66-3	Chloroform	ND	5.5	ug/kg
74-87-3	Chloromethane	ND	5.5	ug/kg
124-48-1	Dibromochloromethane	ND	5.5	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.5	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.5	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.5	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.5	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.5	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.5	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.5	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	ug/kg J
75-09-2	Methylene chloride	ND	5.5	ug/kg
100-42-5	Styrene	ND	5.5	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
127-18-4	Tetrachloroethene	ND	5.5	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.5	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.5	ug/kg
79-01-6	Trichloroethene	ND	5.5	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-29 (1-3)
Lab Sample ID: N20424-12
Matrix: SO - Soil

Method: SW846 8260B

Project: Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02 **Percent Solids:** 94.6

CAS No.	Compound	Result	RL	Units Q
75-01-4 1330-20-7	Vinyl chloride Xylene (total)	ND ND	5.5 2.2	ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-124%
17060-07-0	1,2-Dichloroethane-D4	83 %		62-130%
2037-26-5	Toluene-D8	93%		75-125%
460-00-4	4-Bromofluorobenzene	114%		67-141%

Client Sample ID: SB-29 (5-7) Lab Sample ID: N20424-13 Matrix:

SO - Soil SW846 8260B **Date Sampled:** 08/16/02 Date Received: 08/17/02

Method: Project:

Johnson & Hoffman, Carle Place, NY

Percent Solids: 97.8

File ID DF Analyzed By **Prep Date Prep Batch Analytical Batch** SJM VG2199 G51281.D 08/22/02 Run #1 1 n/a n/a

Run #2

**Initial Weight** 

Run #1 4.5 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg J
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.7	ug/kg
75-25-2	Bromoform	ND	5.7	ug/kg
74-83-9	Bromomethane	ND	5.7	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg 🗍
75-15-0	Carbon disulfide	ND	5.7	ug/kg
56-23-5	Carbon tetrachloride	ND	5.7	ug/kg
108-90-7	Chlorobenzene	ND	5.7	ug/kg
75-00-3	Chloroethane	ND	5.7	ug/kg
67-66-3	Chloroform	ND	5.7	ug/kg
74-87-3	Chloromethane	ND	5.7	ug/kg
124-48-1	Dibromochloromethane	ND	5.7	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.7	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.7	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.7	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.7	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.7	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.7	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.7	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	ug/kg
75-09-2	Methylene chloride	ND	5.7	ug/kg
100-42-5	Styrene	ND	5.7	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
127-18-4	Tetrachloroethene	ND	5.7	ug/kg
108-88-3	Toluene	ND	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.7	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.7	ug/kg
79-01-6	Trichloroethene	ND	5.7	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-29 (5-7) Lab Sample ID: N20424-13

Matrix: Method: N20424-13 SO - Soil

Project:

SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02 **Percent Solids:** 97.8

CAS No.	Compound	Result	RL	Units Q
75-01-4 1330-20-7	Vinyl chloride Xylene (total)	ND ND	5.7 2.3	ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-124%
17060-07-0	1,2-Dichloroethane-D4	78%		62-130%
2037-26-5	Toluene-D8	92%		75-125%
460-00-4	4-Bromofluorobenzene	118%		67-141%

Client Sample ID: SB-30 (1-3) Lab Sample ID: N20424-14 Matrix: SO - Soil

SW846 8260B

Method: Project:

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 Date Received: 08/17/02

Percent Solids: 93.6

By File ID DF **Prep Date** Analyzed **Prep Batch Analytical Batch** Run #1 G51392.D 1 08/26/02 SJM n/a n/a VG2202 Run #2

**Initial Weight** 

Run #1

4.8 g

Run #2

## **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	11	ug/kg 丁
71-43-2	Benzene	ND	1.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.6	ug/kg
75-25-2	Bromoform	ND	5.6	ug/kg
74-83-9	Bromomethane	ND	5.6	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg 丁
75-15-0	Carbon disulfide	ND	5.6	ug/kg
56-23-5	Carbon tetrachloride	ND	5.6	ug/kg
108-90-7	Chlorobenzene	ND	5.6	ug/kg
75-00-3	Chloroethane	ND	5.6	ug/kg
67-66-3	Chloroform	ND	5.6	ug/kg
74-87-3	Chloromethane	ND	5.6	ug/kg
124-48-1	Dibromochloromethane	ND	5.6	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.6	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.6	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.6	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.6	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.6	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.6	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	ug/kg
100-41-4	Ethylbenzene	ND	1.1	ug/kg
591-78-6	2-Hexanone	ND	5.6	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	ug/kg
75-09-2	Methylene chloride	ND	5.6	ug/kg
100-42-5	Styrene	ND	5.6	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg
127-18-4	Tetrachloroethene	ND	5.6	ug/kg
108-88-3	Toluene	1.3	1.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.6	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.6	ug/kg
79-01-6	Trichloroethene	ND	5.6	ug/kg

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank,

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-30 (1-3)

Lab Sample ID: Matrix:

Method:

Project:

N20424-14 SO - Soil

SW846 8260B

Johnson & Hoffman, Carle Place, NY

Date Sampled: 08/16/02 Date Received: 08/17/02 Percent Solids: 93.6

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.6	ug/kg
1330-20-7	Xylene (total)	ND	2.2	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	81%		70-124 %
17060-07-0	1,2-Dichloroethane-D4	75%		62-130 %
2037-26-5	Toluene-D8	92%		75-125 %
460-00-4	4-Bromofluorobenzene	111%		67-141 %

Client Sample ID: SB-30 (5-7) Lab Sample ID: N20424-15 Matrix: SO - Soil

Method: SW846 8260B

Project:

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Percent Solids: 97.5

File ID DF Analyzed By **Prep Date Prep Batch Analytical Batch** Run #1 G51283.D 1 08/22/02 SJM VG2199 n/a n/a

Run #2

**Initial Weight** 

Run #1 4.7 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q	
67-64-1	Acetone	ND	11	ug/kg J	
71-43-2	Benzene	ND	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	ug/kg	
75-25-2	Bromoform	ND	5.5	ug/kg	
74-83-9	Bromomethane	ND	5.5	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg 丁	
75-15-0	Carbon disulfide	ND	5.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	ug/kg	
75-00-3	Chloroethane	ND	5.5	ug/kg	
67-66-3	Chloroform	ND	5.5	ug/kg	
74-87-3	Chloromethane	ND	5.5	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.5	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.5	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	ug/kg	
75-09-2	Methylene chloride	ND	5.5	ug/kg	
100-42-5	Styrene	ND	5.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	
127-18-4	Tetrachloroethene	ND	5.5	ug/kg	
108-88-3	Toluene	ND	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	ug/kg	
79-01-6	Trichloroethene	ND	5.5	ug/kg	

56

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-30 (5-7)

Lab Sample ID: Matrix: N20424-15 SO - Soil

Method: Project: SW846 8260B

Johnson & Hoffman, Carle Place, NY

Date Sampled: Date Received:

08/16/02 08/17/02

Percent Solids: 97.5

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.5	ug/kg
1330-20-7	Xylene (total)	ND	2.2	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		70-124%
17060-07-0	1,2-Dichloroethane-D4	78%		62-130%
2037-26-5	Toluene-D8	92%		75-125%
460-00-4	4-Bromofluorobenzene	117%		67-141%

Client Sample ID: SB-31 (1-3)

Lab Sample ID:N20424-16Matrix:SO - SoilMethod:SW846 8260B

Date Sampled: 08/16/02 Date Received: 08/17/02 Percent Solids: 98.8

Project:

Johnson & Hoffman, Carle Place, NY

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 G51391.D 1 08/26/02 SJM n/a n/a VG2202

Run #2

**Initial Weight** 

Run #1 5.1 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	9.9	ug/kg 丁
71-43-2	Benzene	ND	0.99	ug/kg
75-27-4	Bromodichloromethane	ND	5.0	ug/kg
75-25-2	Bromoform	ND	5.0	ug/kg
74-83-9	Bromomethane	ND	5.0	ug/kg
78-93-3	2-Butanone (MEK)	ND	9.9	ug/kg
75-15-0	Carbon disulfide	ND	5.0	ug/kg
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg
108-90-7	Chlorobenzene	ND	5.0	ug/kg
75-00-3	Chloroethane	ND	5.0	ug/kg
67-66-3	Chloroform	ND	5.0	ug/kg
74-87-3	Chloromethane	ND	5.0	ug/kg
124-48-1	Dibromochloromethane	ND	5.0	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.0	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg
100-41-4	Ethylbenzene	ND	0.99	ug/kg
591-78-6	2-Hexanone	ND	5.0	ug/kg
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/kg
75-09-2	Methylene chloride	ND	5.0	ug/kg
100-42-5	Styrene	ND	5.0	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
127-18-4	Tetrachloroethene	ND	5.0	ug/kg
108-88-3	Toluene	ND	0.99	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg
79-01-6	Trichloroethene	ND	5.0	ug/kg

59

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-31 (1-3)

Lab Sample ID: Matrix:

N20424-16 SO - Soil

Method: Project:

SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 Date Received: 08/17/02

Percent Solids: 98.8

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND	5.0	ug/kg
1330-20-7	Xylene (total)	ND	2.0	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	80%		70-124%
17060-07-0	1,2-Dichloroethane-D4	73%		62-130%
2037-26-5	Toluene-D8	91%		75-125%
460-00-4	4-Bromofluorobenzene	110%		67-141%

Client Sample ID: SB-31 (5-7) Lab Sample ID: N20424-17

Matrix: Method: SO - Soil

SW846 8260B

Date Sampled:

08/16/02 Date Received: 08/17/02

Percent Solids: 97.2

Johnson & Hoffman, Carle Place, NY Project:

**Analytical Batch** File ID DF **Analyzed** Вy **Prep Date Prep Batch** Run #1 G51285.D 08/23/02 SJM VG2199 1 n/a n/a

Run #2

Initial Weight

Run #1

5.0 g

Run #2

#### **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q	
67-64-1	Acetone	ND	10	ug/kg 🕤	
71-43-2	Benzene	ND	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	ug/kg	
75-25-2	Bromoform	ND	5.1	ug/kg	
74-83-9	Bromomethane	ND	5.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg 丁	
75-15-0	Carbon disulfide	ND	5.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	ug/kg	
75-00-3	Chloroethane	ND	5.1	ug/kg	
67-66-3	Chloroform	ND	5.1	ug/kg	
74-87-3	Chloromethane	ND	5.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
591-78-6	2-Hexanone	ND	5.1	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	ug/kg	
75-09-2	Methylene chloride	ND	5.1	ug/kg	
100-42-5	Styrene	ND	5.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	
127-18-4	Tetrachloroethene	ND	5.1	ug/kg	
108-88-3	Toluene	ND	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	ug/kg	
<b>79-01-6</b>	Trichloroethene	ND	5.1	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

62

N = Indicates presumptive evidence of a compound

Client Sample ID: SB-31 (5-7)

 Lab Sample ID:
 N20424-17

 Matrix:
 SO - Soil

 Method:
 SW846 8260B

Project: Johnson & Hoffman, Carle Place, NY

Date Sampled: 08/16/02 Date Received: 08/17/02 Percent Solids: 97.2

CAS No.	Compound	Result	RL	Units Q
75-01-4 1330-20-7	Vinyl chloride Xylene (total)	ND ND	5.1 2.1	ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-124%
17060-07-0	1,2-Dichloroethane-D4	81%		62-130%
2037-26-5	Toluene-D8	93%		75-125%
460-00-4	4-Bromofluorobenzene	116%		67-141%

Client Sample ID: FB081602

Lab Sample ID: N20424-18

Matrix: Method: AQ - Field Blank Soil SW846 8260B

Percent S

Date Sampled: 08/16/02 Date Received: 08/17/02

Percent Solids: n/a

Project:

Johnson & Hoffman, Carle Place, NY

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	S37312.D	1	08/26/02	KNV	n/a	n/a	VS1280
Run #2 a	S37739.D	1	09/05/02	KNV	n/a	n/a	VS1294

Purge Volume

Run #1 5.0 ml Run #2 5.0 ml

#### **VOA TCL List**

CAS No.	Compound	Result	$\mathbf{RL}$	Units Q
67-64-1	Acetone	ND	10	ug/l
71-43-2	Benzene	ND	1.0	ug/l
75-27-4	Bromodichloromethane	ND	1.0	ug/l
75-25-2	Bromoform	ND	4.0	ug/l
74-83-9	Bromomethane	ND	5.0	ug/l
78-93-3	2-Butanone (MEK)	ND	10	ug/l
75-15-0	Carbon disulfide	ND	5.0	ug/l
56-23-5	Carbon tetrachloride	ND	1.0	ug/l 丁
108-90-7	Chlorobenzene	ND	2.0	ug/l
75-00-3	Chloroethane	ND	5.0	ug/l
67-66-3	Chloroform	ND	5.0	ug/l
74-87-3	Chloromethane	ND	5.0	ug/l
124-48-1	Dibromochloromethane	ND	5.0	ug/l
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l J
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l
100-41-4	Ethylbenzene	ND	1.0	ug/l
591-78-6	2-Hexanone	ND	5.0	ug/l J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l 🗇
75-09-2	Methylene chloride	ND	2.0	ug/l
100-42-5	Styrene	ND	5.0	ug/l T
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l J
127-18-4	Tetrachloroethene	ND	1.0	ug/l
108-88-3	Toluene	ND	1.0	ug/l
71-55-6	1,1,1-Trichloroethane	ND:	5.0	ug/l
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l
79-01-6	Trichloroethene	ND	1.0	ug/l

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: FB081602

Lab Sample ID:

N20424-18

Matrix:
Method:

AQ - Field Blank Soil

Project:

SW846 8260B Johnson & Hoffman, Carle Place, NY Date Sampled: 08/16/02 Date Received: 08/17/02 Percent Solids: n/a

CAS No.	Compound	Result	RL	Units Q
75-01-4	Vinyl chloride	ND		ug/l
1330-20-7	Xylene (total)	ND		ug/l
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	114%	83-118%
17060-07-0	1,2-Dichloroethane-D4	115%	134% <sup>b</sup>	69-127%
2037-26-5	Toluene-D8	100%	101%	82-119%
460-00-4	4-Bromofluorobenzene	115%	102%	81-121%

<sup>(</sup>a) Confirmation run.

<sup>(</sup>b) Outside control limits.

Client Sample ID: TB081602

Lab Sample ID: N20424-19

Matrix: Method:

Project:

AQ - Trip Blank Soil

SW846 8260B

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 Date Received: 08/17/02

Percent Solids: n/a

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	S37313.D	1	08/26/02	KNV	n/a	n/a	VS1280
Run #2 a	S37740.D	1	09/05/02	KNV	n/a	n/a	VS1294

**Purge Volume** Run #1 5.0 ml Run #2  $5.0 \, ml$ 

## **VOA TCL List**

CAS No.	Compound	Result	RL	Units Q
67-64-1	Acetone	ND	10	ug/l
71-43-2	Benzene	ND	1.0	ug/l
75-27-4	Bromodichloromethane	ND	1.0	ug/l
75-25-2	Bromoform	ND	4.0	ug/l
74-83-9	Bromomethane	ND	5.0	ug/l
78-93-3	2-Butanone (MEK)	ND	10	ug/l
75-15-0	Carbon disulfide	ND	5.0	ug/l
56-23-5	Carbon tetrachloride	ND	1.0	ug/l J
108-90-7	Chlorobenzene	ND	2.0	ug/l
75-00-3	Chloroethane	ND	5.0	ug/l
67-66-3	Chloroform	ND	5.0	ug/l
74-87-3	Chloromethane	ND	5.0	ug/l
124-48-1	Dibromochloromethane	ND	5.0	ug/l
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l J
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l
100-41-4	Ethylbenzene	ND	1.0	ug/l
591-78-6	2-Hexanone	ND	5.0	ug/l J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l J
75-09-2	Methylene chloride	ND	2.0	ug/l
100-42-5	Styrene	ND	5.0	ug/l J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l J
127-18-4	Tetrachloroethene	ND	1.0	ug/l
108-88-3	Toluene	ND	1.0	ug/l
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l
79-01-6	Trichloroethene	ND	1.0	ug/l

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: TB081602

Lab Sample ID: N20424-19
Matrix: AQ - Trip Blank Soil

Method: SW846 8260B Project: Johnson & Hot

Johnson & Hoffman, Carle Place, NY

**Date Sampled:** 08/16/02 **Date Received:** 08/17/02

Percent Solids: n/a

CAS No.	Compound	Result	RL	Units Q
75-01-4 1330-20-7	Vinyl chloride Xylene (total)	ND ND	1.0 1.0	ug/l ug/l
CAS No.	Surrogate Recoveries	<b>Run#</b> 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	113%	83-118%
17060-07-0	1,2-Dichloroethane-D4	119%	133% b	69-127%
2037-26-5	Toluene-D8	101%	101%	82-119%
460-00-4	4-Bromofluorobenzene	114%	103%	81-121%

<sup>(</sup>a) Confirmation run.

<sup>(</sup>b) Outside control limits.