ARCADIS
Infrastructure, environment, buildings

ARCADIS of New York, Inc.
6723 Towpath Road
P.O. Box 66
Syracuse
New York 13214-0066
Tel 315.446.9120
Fax 315.449.4111
www.arcadis-us.com

ENVIRONMENT

Ms. Alicia Barraza
New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials
Bureau of Solid Waste and Corrective Action
625 Broadway
Albany, New York 12233-7258

Subject:
Bayer MaterialScience LLC
125 New South Road
Hicksville, New York
USEPA ID#: NYD002920312
Soil Vapor Intrusion Background Information Search Summary

Date:
October 1, 2010

Contact:
John C. Brussel

Phone:
315.671.9441

Email:
John.Brussel@arcadis-us.com

Our ref:
B0032305.0004 #5

Dear Ms. Barraza:

This letter summarizes a review of background information searches conducted to identify the potential for volatile organic compounds (VOCs) in soil gas or indoor air at commercial/industrial properties neighboring the Bayer MaterialScience LLC (Bayer) site located at 125 New South Road, Hicksville, New York (the Site). The background information was collected by means of the following: (1) a New York State Department of Environmental Conservation (NYSDEC) Freedom of Information Law (FOIL) request (FOIL Request No. 09-0191); (2) a database search performed by Environmental Data Resources, Inc. (EDR) and; (3) various United States Environmental Protection Agency (USEPA) and NYSDEC web-based database searches. The background information searches focused on seven properties located south of the Site.

The background information search was performed in general accordance with a January 15, 2009 letter from ARCADIS responding to NYSDEC comments on the Phase II Soil Vapor Investigation (SVI) and in response to discussions held during a February 18, 2010 telephone conference call with the NYSDEC and New York State Department of Health (NYSDOH) and a February 23, 2010 letter from the NYSDEC to Bayer commenting on the Phase IV SVI. This letter sets forth an assessment of the seven properties for potential evidence of current or previous use/handling, generation, storage, or release(s) of VOCs, including trichloroethene (TCE), tetrachloroethene (PCE), or cis-1,2-dichloroethene (cis-1,2-DCE) to determine whether an offsite soil vapor investigation south of the Site is needed. TCE, PCE, and cis-1, 2-DCE were key VOCs selected for this background information search

because they are the constituents of interest (COIs) in soil vapor at the Site. Based on the records review summarized herein, there is documented use/storage/handling and/or spills of materials potentially containing TCE, PCE, and cis-1, 2-DCE at three of these seven properties. At the remaining four properties, there are operations/ events that are indicative of potential past or present VOC use. In light of the collective data attained concerning these seven properties, these properties should be eliminated from any additional off-site soil vapor investigations.

Background

ARCADIS began the background information search by reviewing the results of the database search performed by EDR which included a summary of reported spills or releases at properties located within a one mile radius of the Site, historical Sanborn fire insurance maps, aerial photos, and available data from business directories, including city and telephone directories.

ARCADIS submitted a FOIL request letter to the NYSDEC Records Access Officer on February 27, 2009 seeking access to all NYSDEC records relating to environmental issues for select commercial/industrial properties located near the intersection of New South Road and Commerce Place (FOIL Request No. 09-0191). ARCADIS received the following letters in response:

- A March 9, 2009 letter from the NYSDEC Region 1 FOIL Coordinator of the Region One Headquarters in Stony Brook, New York acknowledging the receipt of the FOIL request and distribution of the request to the Region 1 staff.

- A March 19, 2009 letter from the NYSDEC Region 1 FOIL Coordinator indicating the information responsive to the FOIL request may be found on the NYSDEC's web-based Environmental Site Database (ESD).

Based on the response from the NYSDEC FOIL Coordinator and to supplement the EDR search, ARCADIS performed a review of the NYSDEC's ESD and performed a review of the USEPA's Envirofacts databases which include hazardous waste, toxic and air releases, Superfund sites, and water discharge permits.

As a follow-up to the FOIL request to the NYSDEC, ARCADIS also submitted a FOIL request to the Nassau County Fire Marshal's Office on May 1, 2009 requesting access to chemical and/or petroleum bulk storage records for properties surrounding the Site. Approval to review the Fire Marshal Office records was provided in an e-

mail correspondence from the Fire Marshal to ARCADIS dated July 7, 2009. ARCADIS went to the Fire Marshal's office on August 20, 2010 and collected background information on properties with available records. Records collected from the Fire Marshal's office consisted of various petroleum-related (e.g., #2 fuel oil, diesel, gasoline) spills and tank closures for properties surrounding the Site.

In July 27, 2010 e-mail correspondence from ARCADIS to the NYSDEC, ARCADIS requested additional information on soil vapor and indoor air sampling performed at a property south of the site (the Finishing Inc. Dynamic Graphics [Dynamic Graphics] property). This request was made in response to findings from the initial review of available information. The NYSDEC responded to ARCADIS and provided the *Voluntary Investigation Cleanup Report* (Nelson, Pope, & Voorhis, LLC, May 2005) (the "VIC Report") for the property in e-mail correspondence dated July 28, 2010. In e-mail correspondence dated July 28, 2010, the NYSDOH also responded to ARCADIS indicating the information transferred to the database was incorrect and that no soil vapor or indoor air sampling was performed at the property.

Relevant correspondence referenced above are provided in Appendix A. Records pertaining to potential use/handling, generation, storage, or release(s) of VOCs at the properties south of the Site are included in Appendix B, organized by business name and then by source of the records (e.g., USEPA and NYSDEC). Historical aerial photos are included in Appendix C. ARCADIS' review of these records is summarized below, organized by current business occupying the property.

Summary of Background Information

Background information was collected on the following seven properties (listed in Table 1 and shown on Figure 1) located south of the Site (listed below from north to south):

- American Compressed Gases
- Capitol Warehouse Corporation
- Number One Textiles
- Westye Group East
- Dynamic Graphics

- Matt-Conn Services Corp (Matt-Conn)
- Long Island Railroad (LIRR)

Background information was reviewed to identify building usage and potential generator use, storage, handling, transportation/disposal or spills of VOCs. The available records primarily pertain to Resource Conservation and Recovery Act (RCRA) inspections, historic spills, underground storage tank (UST) registrations and closures, aboveground storage tanks (ASTs), and hazardous waste manifests.

Findings of the background information search are summarized below, organized by current business name.

American Compressed Gases (Formerly U.S. Gas Corp. Garbarb Industries, Inc., and Northern Realty)

This property is located at 309 New South Road and, according to property records on the Nassau County Department of Assessment (NCDA) website, is used as a storage, warehouse and distribution facility.

Based on the relevant information presented in the database search performed by EDR, there is evidence of two steel propane ASTs (one 30,000-gallon and one 6,100-gallon), one 3,000-gallon UST (unknown contents), and various small propane tanks on the property. Based on aerial photos of the Site, the 6,100-gallon AST has been removed. The remaining 30,000-gallon AST contains propane, and the UST is empty but appears to remain on the property based on a record identified in the EDR Report.

There were no records indicating current or previous use/handling, generation, storage, or release(s) of VOCs at this property. However, it is difficult to determine if the facility performs in-house maintenance on the tanks themselves and on the trucks used for their distribution of propane. Maintenance activities at this type of facility would typically involve the use of degreasers, painting products, and cleaning products potentially containing VOCs such as TCE, PCE, and cis-1, 2-DCE.

Capitol Warehouse Corporation (Formerly Sid Harvey)

This property is located at 317 New South Road and, according to property records on the NCDA website, is a heavy manufacturing factory complex.

Based on the relevant information presented in the database search performed by EDR and verified with a search of the web-based NYSDEC Region 1 ESD records, there is evidence of historic leaking USTs, spills, and potential solvent use on this property. Information presented in the EDR Report and verified by ESD records is summarized below.

- A NYSDEC Region 1 Spill Report exists for observations at the property on August 2, 1989. The report states that six 55-gallon drums sealed and marked "lacquer thinner" were observed on the property, but there was no evidence of a spill. The report also notes that the drums may belong to LIRR, but this was not confirmed.

- A NYSDEC Region 1 Spill Report indicates that on October 2, 1990, a citizen making a delivery to a local business witnessed the employee of a former tenant (Sid Harvey) dumping approximately 2 gallons of "unknown petroleum" into storm drain. An additional comment in the spill report also indicates the material was possibly a cleaning solvent. Based on the report, no field screening was performed to assess the presence of VOCs, and no samples were collected from the storm drain.

- A NYSDEC Region 1 Spill Report indicates that on February 13, 1995, while the building was occupied by Sid Harvey, a tank truck driver for Variety Petrol overfilled a tank at the property, spilling approximately 20 gallons #2 fuel oil. The NYSDEC description of the spill on the NYSDEC spill report was: "Driver making delivery spilled, applied Speedi Dri; there is a sheen in the storm drain".

The records suggest that there was inadequate housekeeping, hazard communication, maintenance, and/or standard operating procedures (SOPs) at the property that could have prevented spills during petroleum deliveries and prevented the mishandling of materials such as the possible "cleaning solvent". The records also provide evidence that there was potential solvent use at the property, which could contain VOCs such as the COIs related to the Site.

Hicksville DPW (Suspected to formerly be at Capitol Warehouse Corporation Property)

Based on the information provided in the database search performed by EDR and in a hazardous waste shipment report provided by the NYSDEC in e-mail correspondence dated July 28, 2010, the Hicksville Department of Public Works (Hicksville DPW) historically shipped waste solvents from adjacent to the Site. However, no street address is provided in the available records for the Hicksville DPW's location. Both databases provided information indicating the wastes were shipped from the corner of New South Road and Morris Street. It has been assumed that the most likely property that the Hicksville DPW occupied would have been the Capitol Warehouse Corp. property due to its size and large overhead doors that would allow large vehicle access and equipment/material storage/staging. The only other commercial/industrial property at the corner of New South Road and Morris Street is American Compressed Gases. However, American Compressed Gases (used primarily for storing propane for distribution) was unlikely used by the Hicksville DPW because it is generally smaller, and has limited space for large vehicles and equipment/material storage. It was contemplated that the database listing may be for materials generated during roadway construction/maintenance work and was stored on the roadway right-of-way prior to offsite transportation and disposal. However, it is more likely that such materials would have been taken to a secure facility for temporary storage. Further information on the waste shipments by the Hicksville DPW is presented below.

The records (manifests) indicate a history of hazardous waste shipments between October 1989 and July 1992 for wastes with the following USEPA hazardous waste codes: (1) D001 (Non-Listed Ignitable Wastes); (2) D002 (Non-Listed Corrosive Wastes); and (3) F003 (Spent Non-Halogenated Solvents). The DPW was listed as a RCRA – Large Quantity Generator (LQG) in 1989 and 1992 for generating more than 1000 kilograms (kg) of hazardous waste per month. In 1990 and 1991, the DPW was listed as a RCRA – Conditionally Exempt Small Quantity Generator (CESQG) for generating 100 kg or less of hazardous waste per month.

The D001 and D002 waste codes are not necessarily associated with solvents. Waste code of F003 refers to the following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated

solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. Definitions of the waste streams associated with waste codes F001, F002, F004, and F005 which contain or may contain spent halogenated solvents such as those found at the Site, are presented below:

- Waste Code F001 refers to the following spent halogenated solvents used in degreasing: PCE, TCE, methylene chloride, 1,1,1- trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

- Waste code of F002 refers to the following spent halogenated solvents: PCE, methylene chloride, TCE, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

- Waste code F004 refers to the following spent non-halogenated solvents: cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten prevent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

- Waste code F005 refers to the following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

Based on the definitions above, F003 wastes shipped from this property could potentially have contained TCE, PCE and/or cis-1, 2-DCE. D001 wastes shipped from this property (which exhibit the characteristic of ignitability and are known to create fires under certain conditions, are spontaneously combustible, or have a flash point less than 60°C [140°F]) could potentially have contained TCE and cis-1, 2-DCE as the cause of their flammability. Shipment of these waste streams also indicates the possible use/handling, storage, or release of TCE, PCE, and cis-1, 2-DCE at the property. Material Safety Data Sheets (MSDS) for TCE, PCE, and for cis-1, 2-DCE which provide basic chemical properties for each compound, are included in Attachment D.

Number One Textiles (Formerly Century Collision)

This property is located at 321 New South Road and, based on a telephone conversation with an NCDA assessor and a web-based search of the AT&T Yellow Pages, the property is used for a wholesale textile and fabric business. Based on the database search performed by EDR and the NCDA website, the property is used for commercial garage repairs, auto body, tire shops, and other related repairs. However, during the telephone conversation with the NCDA assessor, the assessor clarified that the property may currently be occupied by Number One Textile, but the NCDA database records have not been updated yet to reflect the change in property use.

Based on the relevant information presented in the database search performed by EDR, there is evidence of solvent use on this property. From 1989 to 2005, the property was occupied by Century Collision, Inc. (Century Collision) and records indicate hazardous waste manifests with F003 and F005 USEPA hazardous waste codes (refer to the discussion above for the Hicksville DPW for definitions of these waste codes). Century Collisions was listed as a CESQG. Shipment of F003 and F005 waste, as previously discussed for the Hicksville DPW, indicates the possible use/handling, storage, and/or release of TCE, PCE, and cis-1, 2-DCE at the property.

Westye Group East

This property is located at 70 Somerset Avenue. Based on Westye's website, the company is a wholesale distributer of kitchen appliances. The NCDA website describes the proper as being used for storage, warehousing, and distribution. Pictures of the facility and information provided on the NCDA website indicate the facility has multiple truck bay doors, and truck and train loading areas.

There were no records indicating current or previous use/handling, generation, storage, or release(s) of VOCs at this property. However, it is difficult to determine if the facility performs in-house maintenance on the trucks used for distribution activities. Maintenance activities at this type of facility would typically involve the use of degreasers, painting products, and cleaning products potentially containing VOCs such as TCE, PCE, and cis-1, 2-DCE. The property is located between the Capitol Warehouse Corporation, Number One Textiles, Dynamic Graphics, Matt-Conn, and LIRR properties, which all have historical petroleum or waste oil spills and/or evidence of solvent use.

Dynamic Graphics (Formerly Coral Graphics, Azzarone Construction Corp., and Voigt Realty)

This property is located at 327 New South Road and, according to property records on NCDA website, is used for light manufacturing.

Based on the relevant information presented in the database search performed by EDR and in the VIC Report provided in e-mail correspondence from the NYSDEC dated July 28, 2010, there is evidence of historic leaking USTs and spills on the property.

While the property was occupied by Coral Graphics, Phase I and Phase II Remedial Investigations (RIs) performed in 2000 that indicated historical groundwater impacts in the vicinity of the former onsite sanitary system. The discovery of the groundwater contamination caused Coral Graphics to enter into a voluntary cleanup agreement (VCA) with the NYSDEC. A voluntary investigation was conducted in 2002 and 2003 and found sediment in the onsite drywells and sanitary leaching pools impacted with metals and semi-volatile organic compounds (SVOCs). During the investigation, an improperly abandoned 3,000-gallon #2 fuel oil UST containing approximately 8 inches of #2 fuel oil was discovered while installing a monitoring well. A NYSDEC Spill Record was issued in response to finding of product remaining in the UST. A voluntary interim remedial measure (IRM) was performed in conjunction with the investigations to remove the sediment in the drywells and leaching pools and remove the UST. The UST was removed from May 29 to June 4, 2003. During removal, there was no evidence of fuel oil leakage from the UST.

A NYSDEC Spill Record indicated that on August 8, 2004 a 1,200-gallon tank on the property had an equipment failure causing 50 gallons of #2 fuel oil to be released to an onsite drywell. The tank from which the spill was reported is most likely an AST

that was installed on the east side of the building to replace the decommissioned UST. The drywell was pumped out using a vacuum truck.

The records suggest that there was inadequate housekeeping, maintenance, and/or SOPs at the property that could have prevented the improper closure of the UST and prevented spills during petroleum deliveries.

Matt-Conn (Formerly Francis A. Lee Company and Voigt Realty)

This property is located at 335 New South Road and, according to property records on the NCDA website, is used as a storage, warehouse, and distribution facility.

Based on the relevant information presented in the database search performed by EDR and verified by searching the web-based USEPA RCRAInfo database, there is evidence of former solvent use on this property now owned by Matt-Conn. Records indicate that on August 12, 2005, while the property was occupied by Francis A. Lee Company, two metal drums containing approximately 880 pounds of hazardous waste were shipped offsite under a hazardous waste manifest with a F005 USEPA hazardous waste code (refer to the discussion above for the Hicksville DPW for a definition of waste code F005). Francis A. Lee Co was classified as a LQG in 1994, a SQG in 2005, and a CESQG in 2006 and 2007. Shipment of F005 waste may indicate potential use/handling, storage, or release of TCE, PCE, and/or cis-1,2-DCE at the property.

The Francis A. Lee Co. business that formerly operated at the property has North American Industry Classification System (NAICS) code (the NAICS code identifies the activities of a facility) # 811121, indicating automotive body, paint, and interior repair and maintenance. Such facilities typically handle cleaning, paints, and other products some of which contain or formerly contained TCE, PCE, and/or cis-1,2-DCE.

The EDR records also indicate the current owner and occupant, Matt-Conn, performed closure activities on a 10,000-gallon #2 fuel oil UST due to the UST failing a tank test. The NYSDEC was onsite to observe the activities and visually observed that no soil was impacted. No further action was performed at the property related to this tank closure.

Long Island Railroad

A NYSDEC Region 1 Spill Record indicates that on December 8, 1986, an unknown quantity of waste/used oil was spilled on the LIRR tracks at or near the New South Road crossing. The cause of the spill was noted as “deliberate” but did not specify the exact location. Waste/used oil is generally collected as the result of routine maintenance on engines and equipment. These maintenance activities commonly use degreasing and cleaning solvents with VOCs that would mix with the waste/used oil.

Conclusions

Based on the results of the background information search and FOIL records review, operations (past and/or present) conducted at three of the properties (i.e., Capitol Warehouse Corp., Number One Textiles, and Matt-Conn) located south of the Site clearly involved use/handling, generation, storage, or release(s) of materials containing VOCs. This use/handling, generation, storage, or release is evident based on waste manifest information. As indicated above, there were operations/events at four of the properties (American Compressed Gases, Westye Group, Dynamic Graphics, and LIRR) that are indicative of potential past or present VOC use. Currently, based on the information above, each of these properties south of the Site has been eliminated from consideration for soil vapor, indoor air, and sub-slab vapor sampling.

Concurrent with this background information search for properties south of the Site, Bayer is actively pursuing an access agreement with Simone Development (Simone) to prepare for indoor air and sub-slab sampling on Simone property located east of the Site. Prior to sampling at Simone property, a work plan will be prepared and provided to the NYSDEC summarizing findings of a preliminary building walk-through, product inventory, and building reconnaissance, and identifying proposed sampling locations.

Given the evidence of a waste oil spill in the LIRR ROW, the potential health and safety risks (active railroad) associated with performing sampling activities within the LIRR right-of-way (ROW), and the information provided for the properties of this background search, investigation on the LIRR ROW will not be performed.

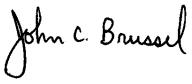
A rationale and justification for the proposed actions is presented below.

Recommendations

The nature of past and present operations conducted at the seven properties along with evidence of handling materials with VOCs and releases of VOCs at some of the properties indicate the potential for VOCs in indoor air or soil vapor at the properties that is unrelated to Bayer Hicksville operations. Solvent waste was transported from Capitol Warehouse (specifically the Hicksville DPW), Number One Textile, and Matt-Conn for offsite treatment/disposal Petroleum spills were documented for Capital Warehouse Corporation, Dynamic Graphics and LIRR. (Spills of petroleum may be indicative of improper housekeeping and waste management programs.) The remaining properties are either surrounded by or adjacent to properties with evidence of current or previous use/handling, storage, or spills/releases of VOCs, and the current or former operations at these remaining properties were commonly associated with activities that may have involved the use/handling, storage, or releases of VOCs or products containing VOCs. Additional information on the generation, use/handling, storage, or release of VOCs might be discovered if a reconnaissance was performed at each facility. However, in general, there is significant evidence of historical generation, use/handling, storage, and release of VOCs at the properties located south of the Site to warrant a recommendation that no offsite soil vapor investigation activities be conducted south of the Site in connection with the soil vapor intrusion investigation being performed for the Site.

Sincerely,

ARCADIS of New York, Inc.



John C. Brussel, PE
Principal Engineer

Copies:
Ms. Katy Murphy, New York State Department of Environmental Conservation
Ms. Fay Navratil, New York State Department of Health
Ms. Renata Ockerby, New State Department of Health
Mr. Ramon Simon, Bayer MaterialScience LLC
Mr. Chintan Amin, Bayer MaterialScience LLC
Mr. Andrew Enigk, ARCADIS

Table 1

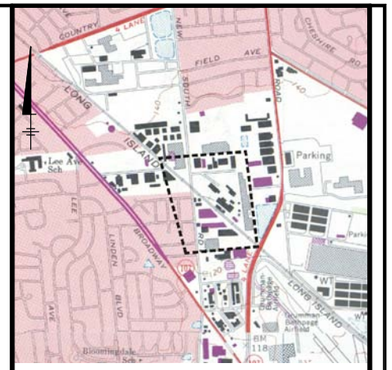
TABLE 1
BUSINESS/OWNERSHIP INFORMATION FOR PROPERTIES SOUTH OF THE SITE

BACKGROUND INFORMATION SEARCH
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Current Business Name	Tax Parcel Number	Street Address/Location	Land Description	Property Owner / Business Name		Proposed Action
				Current	Previous	
American Compressed Gases	46-242-18 & 46-242-17	309 New South Rd	Storage Warehouse and Distribution Facility	American Compressed Gases	Grabarb Industries, Inc. Northern Realty Co. U.S. Natural Gas Company	NFA
Capitol Warehouse Corporation	46-504-138	317 New South Rd	Heavy Manufacturing Factory Complex	Somerset Corporation	Sid Harvey Hicksville DPW	NFA
Number One Textiles	46-504-101 (grouped with Lot 103)	321 New South Rd	Wholesale Textile and Fabric	KRW LLC	Century Collision, Inc.	NFA
Westye Group East	46-504-137	70 Somerset Ave	Storage Warehouse and Distribution Facility	AMES Corporation	Unknown	NFA
Finishing Inc. Dynamic Graphics	46-504-140	327 New South Rd	Light Manufacturing and Small Factory Buildings	FC Properties	Azzarone Const. Co., Voigt Realty Co. Inc Coral Graphics	NFA
Matt-Conn Services Corp.	46-504-139	335 New South Rd	Storage Warehouse and Distribution Facility	Matt-Conn Services Corp.	Azzarone Const. Co., Voigt Realty Co. Inc Francis A. Lee Company	NFA
Long Island Railroad	--	Crosses New South Road between Mineola Ave and Commerce Place	Railroad	Metropolitan Transportation Authority	Metropolitan Transportation Authority	NFA

Notes:
1. Tax map parcel numbers and land description were obtained from the Nassau County Department of Assessment website: www.nassaucountyny.gov/mynassauproperty.
2. Business names were acquired from Town of Oyster Bay Tax Office and a February 2009 internet search which was updated in March 2010.
3. Current Property owners were identified from review of tax records during February 2009, at the Town of Oyster Bay Tax office.
4. Previous owner names/business were identified from"Property Record Cards" downloaded from the Nassau County Department of Assessment website in February 2009 and from an Environmental Data Resource (EDR) Radius Map™ Report with Geocheck® dated February 11, 2009.

Figure



LEGEND:

- PREVIOUS SOIL GAS SAMPLING LOCATIONS
- CURRENT & HISTORICAL SITE STRUCTURES
- PROPERTY LINE
- PROPERTY LINE FOR PROPERTIES INCLUDED IN BACKGROUND INFORMATION SEARCH
- 46-504-138 TAX MAP PARCEL NUMBER INCLUDED IN BACKGROUND INFORMATION SEARCH

NOTES:

1. AERIAL PHOTOGRAPH OBTAINED FROM NEW YORK STATE GEOGRAPHIC INFORMATION SYSTEM (NYS GIS) DATABASE. PHOTO DATE: 2007.
2. PROPERTY LINES APPROXIMATE USING NASSAU COUNTY DEPARTMENT OF ASSESSMENT MAP TITLED "LAND & TAX MAPS" FOR SECTION 46, BLOCK 240, BLOCK 504 AND BLOCK N.
3. BASEMAP, INCLUDING PROPERTY LINES FOR INDIVIDUAL PARCELS, WAS DEVELOPED BY COMBINING NASSAU COUNTY DEPARTMENT OF ASSESSMENT MAPS TITLED "LAND & TAX MAPS" FOR THE FOLLOWING BLOCKS WITHIN SECTION 46:
   - BLOCK 240 (MAP LAST REVISED DECEMBER 19, 2002).
   - BLOCK 504 (MAP LAST REVISED JANUARY 2, 2003).
   - BLOCK N (MAP LAST REVISED ON JANUARY 12, 2009).
4. CURRENT BUSINESS NAMES WERE AQUIRED FROM TOWN OF OYSTER BAY TAX OFFICE AND A MARCH 2010 INTERNET SEARCH.
5. SVI = SOIL VAPOR INVESTIGATION

0 120' 240'

GRAPHIC SCALE

BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

BACKGROUND INFORMATION SEARCH

PROPERTIES MAP

ARCADIS

FIGURE 1

CITY: SYRACUSE, NY GROUP: ENVCAD DB: A. SCHILLING, P. LISTER PM: J. BRUSSEL TR: A. ENIGK LYR: ON=*;OFF=REF. (FR2)
G:\ENVCAD\SYRACUSE\ACTIB0032305\00\A000001D\WG\32305B03.DWG LAYOUT: 1SAVED: 7/7/2010 1:18 PMACADVER: 17.0S (LMS TECH)PAGESETUP: ---PLOTSTYLETABLE: PLTFULL.CTBPLOTTED: 7/7/2010 1:25 PMBY: LISTER, PAUL
XREFS: IMAGES: PROJECTNAME: ----
32305N02.JPG
32305X13.jp2
32305X14.jp2
32305X16.jp2
32305X17.jp2

Appendix A

Relevant Correspondence

ARCADIS
Infrastructure, environment, buildings

ARCADIS
6723 Towpath Road
P.O. Box 66
Syracuse
New York 13214-0066
Tel 315.446.9120
Fax 315.449.4111
www.arcadis-us.com

ENVIRONMENT

Records Access Officer
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-1016

Date:
February 27, 2009

Contact:
John C. Brussel, P.E.

Phone:
315.671.9441

Email:
John.Brussel@arcadis-us.com

Our ref:
B0032305.0001

Subject:
Freedom of Information Law Request
VOC Information at Select Properties in Hicksville, New York

Dear Sir or Madam:

Pursuant to the Freedom of Information Law (FOIL), ARCADIS is requesting access to all agency records relating to environmental issues for select commercial/industrial properties located near the intersection of New South Road and Commerce Place in Hicksville, New York. For reference, the general location of the relevant properties is shown on the Properties Location Map included on Figure 1. The 22 specific properties that are the subject of this information request are identified by mailing address and parcel number in Table 1 and are also shown on the Properties Map. For each of the 22 identified properties, including both current and former owners and operators, ARCADIS is requesting information pertaining to the following:

- Current and historic generation of volatile organic compounds (VOCs) or products containing VOCs.
- Use, handling, and storage of VOCs or products containing VOCs.
- Transportation and disposal of any wastes or other materials containing VOCs.
- Releases and discharges of VOCs or products containing VOCs at or from the properties or in any manner associated with the operations on the properties (including without limitation, releases/discharges to air, surface water, storm water, groundwater, soils, or sanitary sewers).

This FOIL request is seeking all relevant information relating to the above categories of information at each of the 22 identified properties, and includes *but is not limited to*, all relevant:

- Enforcement actions, Notices of Violation or similar citations, and all related file materials.

- Permits, licenses, and other approvals (including any amendments, modifications and applications).
- Waste manifest and shipping documents.
- Monitoring/sampling data.
- Property/environmental investigation and remediation reports and all related file materials.
- Toxic Release Inventory submittals.
- Spills records for spills that pre-date those downloaded onto, and available on, the New York State Department of Conservation's (NYSDEC's) website.
- All correspondence related to the above documents, including electronic correspondence.

ARCADIS understands that a fee will be charged for copies provided under this request ($0.25 per page or the cost for reproduction by a NYSDEC photocopying subcontractor). If costs for reproduction of records will exceed $250.00, please contact me at 315.671.9441 to schedule an appointment for ARCADIS to view the documents. Please do not hesitate to contact me if you have any questions or require additional information.

Sincerely,

ARCADIS

John C. Brussel

John C. Brussel, P.E.
Principal Engineer

Copies:
Andrew C. Enigk, ARCADIS

TABLE 1
BUSINESS/OWNERSHIP INFORMATION FOR PROPERTIES INCLUDED IN FOIL REQUEST

BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

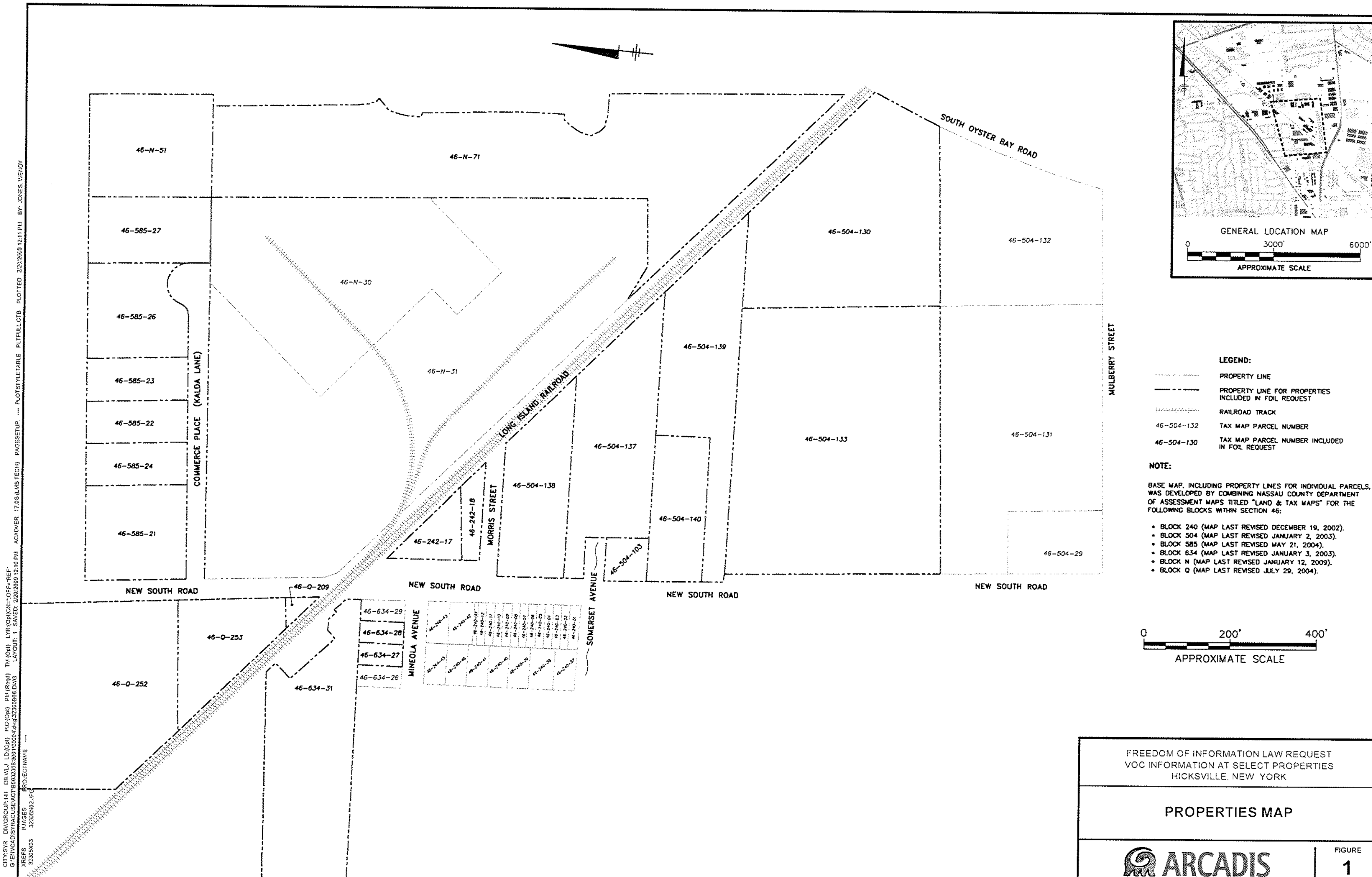
Current Business Name	Tax Map Parcel Number	Property Address	Current Owner's Address (& Name if Different from Business Name)	Current Business Type	Previous Owner Name(s)
Simone Development Co LLC	46-N-71	55 Enterprise Plaza Bethpage, NY 11714	1000 Main Street New Rochelle, NY 10801-7538	Storage warehouse and distribution facility	Grumman Aerospace Corp
BFS Realty II LLC	46-N-51	910 Oyster Bay Road Hicksville, NY 11801	Sovereign Bank 3100 New York Street, Pasadena, CA 91107-1501	Heavy manufacturing factory complex	<Not Available>
OCHS New South Realty	46-585-21	121 New South Road Hicksville, NY 11801	<Not Available>	Light manufacturing	Bemis Company Foundation
PIMA Associates	46-585-22	40 Kalda Lane Hicksville, NY 11801	40 Commerce Place Hicksville, NY 11801	Commercial office building	P&S Klein and L Shaffer
Lora Steven Realty Corp	46-585-23	50 Kalda Lane Hicksville, NY 11801	50 Commerce Plaza Hicksville, NY 11801-5295	Storage warehouse and distribution facility	--
60 Commerce Corp	46-585-26	60 Kalda Lane Hicksville, NY 11801-5210	69-32 228th Street Bayside, NY 11364-3117	Storage warehouse and distribution facility	Rosstone Packaging Corp, LL Realty
Wasserman Family, Limited Partnership	46-585-27	70 Kalda Lane Hicksville, NY 11801-5210	Charles Wasserman 70 Commerce Plaza Hicksville, NY 11801-5210	Storage warehouse and distribution facility	Rosstone Packaging Corp, LL Realty
108-122 New South Road Realty	46-Q-252	108 New South Road Hicksville, NY 11801	First American Commercial Tax PO Box 16792 Irving, TX 75016-7928	Light manufacturing	Gary Calmenson
Vacant Land (Industrial)	46-Q-253	120 New South Road Hicksville, NY 11801	Rizziero Delmonaco 34A Barnum Avenue Plainview, NY 11803-6027	Industrial	Gary Calmenson
Vacant Land (Industrial)	46-Q-209	New South Road (no # found) Hicksville, NY 11801	IRA I Miller 170 E Broadway Long Beach, NY 11561	Industrial	County of Nassau
IRACE Reichmann Associates	46-634-31	4851-34 S Broadway, Rt-107 Hicksville, NY 11801	63 Commercial Avenue Garden City, NY 11530-6439	Storage warehouse and distribution facility	<Not Available>
Chase Home Finance LLC	46-634-27	37 Mineola Avenue Hicksville, NY 11801	Wai Wu and Tran Chu 1 First American Way Westlake, TX 76262-5310	Commercial office building	Lloyd M & Berit Lee
Citimortgage Inc	46-634-28	39 Mineola Avenue Hicksville, NY 11801	Italio Strani 95 Methodist Hill, Dr Ste 100 Rochester, NY 14623-4280	Commercial	Gregory Deangelis
American Compressed Gases Inc.	46-242-18	Morris Street (no street # found) Oyster Bay, NY 11771	189 Central Avenue Old Tappan, NJ 07675-7308	Storage warehouse and distribution facility	Grabarb Industries, Inc., Northern Realty Co.
American Compressed Gases Inc.	46-242-17	Morris Street (no street # found) Oyster Bay, NY 11772	190 Central Avenue Old Tappan, NJ 07675-7308	Storage warehouse and distribution facility	Grabarb Industries, Inc., Northern Realty Co.

TABLE 1
BUSINESS/OWNERSHIP INFORMATION FOR PROPERTIES INCLUDED IN FOIL REQUEST

BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Current Business Name	Tax Map Parcel Number	Property Address	Current Owner's Address (& Name if Different from Business Name)	Current Business Type	Previous Owner Name(s)
Somerset Corp	46-504-138	317 New South Road Hicksville, NY 11801	3075 Veterans Memorial Hwy Suite-275 Ronkonkoma NY 11779-7667	Heavy manufacturing factory complex	--
AMES Corp	46-504-137	70 Somerset Avenue Hicksville, NY 11801	3076 Veterans Memorial Hwy, Suite-275 Ronkonkoma, NY 11779-7667	Heavy manufacturing factory complex	--
FC Properties Inc.	46-504-140	327 New South Road Hicksville, NY 11802	31 Commercial Street Plainview, NY 11803-2401	Light manufacturing	Azzarone Const. Co., Voigt Realty Co. Inc.
Matt-Conn Services Corp	46-504-139	335 New South Road Hicksville, NY 11801	Maspeth Fed S&L 56-05 69th Street Maspeth, NY 11378-1808	Storage warehouse and distribution facility	Azzarone Const. Co., Voigt Realty Co. Inc.
Grumman Aerospace Corp.	46-504-131 (grouped with Lot 133)	Oyster Bay Road Bethpage, NY 11714	Grumman Aerospace Corporation Bethpage, NY 11714	Industrial	Pittsburgh Plate Glass
Steel Circuit LLC	46-504-130	1000 S Oyster Bay Road Hicksville, NY 11801	S Oyster Bay Realty, LLC 700 Hicksville Road Bethpage, NY 11714-3471	Storage warehouse and distribution facility	Grumman Aircraft Engine Corp.
KRW LLC	46-504-101 (grouped with Lot 103)	321 New South Road Hicksville, NY 11801-5227	321 New South Road Hicksville, NY 11801-5227	Commercial garage repairs, auto body, tire shop	Century Collision, Inc.

Notes:
1. Tax map parcel numbers were obtained from the Nassau County Department of Assessment website: www.nassaucountyny.gov/mynassauproperty.
2. Business names were acquired by field reconnaissance (from Town of Oyster Bay Tax Office) and internet research during February 2009.
3. Current property owners were identified from review of tax records at the Town of Oyster Bay Tax Office during February 2009.
4. Previous owner names were identified from "Property Record Cards" downloaded from the Nassau County Department of Assessment website in February 2009.



LEGEND:

- PROPERTY LINE
- PROPERTY LINE FOR PROPERTIES INCLUDED IN FOIL REQUEST
- RAILROAD TRACK
- 46-504-132 TAX MAP PARCEL NUMBER
- 46-504-130 TAX MAP PARCEL NUMBER INCLUDED IN FOIL REQUEST

NOTE:

BASE MAP, INCLUDING PROPERTY LINES FOR INDIVIDUAL PARCELS, WAS DEVELOPED BY COMBINING NASSAU COUNTY DEPARTMENT OF ASSESSMENT MAPS TITLED "LAND & TAX MAPS" FOR THE FOLLOWING BLOCKS WITHIN SECTION 46:

- BLOCK 240 (MAP LAST REVISED DECEMBER 19, 2002).
- BLOCK 504 (MAP LAST REVISED JANUARY 2, 2003).
- BLOCK 585 (MAP LAST REVISED MAY 21, 2004).
- BLOCK 634 (MAP LAST REVISED JANUARY 3, 2003).
- BLOCK N (MAP LAST REVISED JANUARY 12, 2009).
- BLOCK Q (MAP LAST REVISED JULY 29, 2004).

0 200' 400'
APPROXIMATE SCALE

FREEDOM OF INFORMATION LAW REQUEST
VOC INFORMATION AT SELECT PROPERTIES
HICKSVILLE, NEW YORK

PROPERTIES MAP

ARCADIS

FIGURE 1

New York State Department of Environmental Conservation
Administration, Region One Headquarters
50 Circle Road - SUNY
Stony Brook, NY 11790-3409
Phone: (631) 444-0202 • FAX: (631) 444-0353
Website: http://www.dec.ny.gov

Alexander B. Grannis
Commissioner

March 9, 2009

Mr. John Brussel
ARCADIS
8723 Towpath Road
Syracuse, NY 13214-0066

FOIL Reference No. : 09-0191
A-09-505

Dear Mr. Brussel:

This is to acknowledge receipt of your Freedom of Information Law request seeking records **regarding information on commercial/industrial 22 properties for New South Road and Commerce Place in Hicksville**

I have referred your request to the Region 1 staff that may possess the records that you are requesting. You may expect a response from me to your request by **APRIL 8, 2009.** That response will advise you whether any records responsive to your FOIL request have been identified, and if so, the extent to which the records are releasable under FOIL.

If I can be of further assistance, please contact me at 631-444-0202, please refer to the FOIL Request **09-0191** that the Region has assigned to the request if you write or call.

Sincerely,

N. Pinamonti

Nancy Pinamonti
Region 1 FOIL Coordinator
np

New York State Department of Environmental Conservation
Administration, Region One Headquarters
50 Circle Road - SUNY
Stony Brook, NY 11790-3409
Phone: (631) 444-0202 • FAX: (631) 444-0353
Website: http://www.dec.ny.gov

Alexander B. Grannis
Commissioner

March 19, 2009

Mr. John Brussel
ARCADIS
8723 Towpath Road
P.O. Box 68
Syracuse, NY 13214-0066

FOIL Reference No.: 09-0191 - commercial/industrial 22 properties for New South Road and Commerce Place in Hicksville
A-09-505

Dear Mr. Brussel:

NYSDEC Region 1 has reviewed your request for the above referenced records under New York State's Freedom of Information Law (FOIL). Please note that information responsive to your request may be found on the Department of Environmental Conservation's website at: **http://www.dec.ny.gov/**

upper right hand corner under search, type database, click on Environmental Site Database Search, click on Spill Incidents Database Search.

The website includes records associated with sites in several of our remedial programs including the Spill Response Program (SRP), Brownfield Cleanup Program (BCP), State Superfund Program (SSF), Environmental Remediation Program (ERP), and the Voluntary Cleanup Program (VCP). These search engines enable you to search for the requested information using various criteria.

If, based on your search, you require additional records not contained on that accessible site, please resubmit your request and include the FOIL number noted above. In order to expedite our response to your request for additional records, please include additional information such as spill/site identification numbers found on the sites mentioned above. Providing a spill/site identification number and a specific address, owner/corporation name which will help to facilitate the Department's review for the requested records.

If we do not hear from you within the next 14 days, we will assume that you received the information you were seeking through your web search and the FOIL file will be closed.

Thank you for your interest. If you have any questions, please contact Nancy Pinamonti/FOIL Coordinator at (631) 444-0202.

Sincerely,

N. Pinamonti

Nancy Pinamonti

NYS Department of Environmental Conservation
Office of General Counsel
625 Broadway, Albany, New York 12233-1500
(518) 402-9018 (Fax)

Alexander B. Grannis
Commissioner

FOIL Request No. 09-505
3/9/2009

Mr. John C Brussel
BBL, Inc.
6723 Towpath Road Po Box 66
Syracuse, NY 13214-0066

Dear Mr. Brussel:

This is to acknowledge receipt of your Freedom of Information Law request seeking records regarding: ***New Commerce Road and Commerce Place, Hicksville, NY (volatile organic compounds VOC's, monitoring, toxic releases, manifest shipping data)***

I have referred your request to the following Records Custodian(s) / Freedom of Information Law Coordinator(s) who may possess the records you are requesting:

Ms. Valerie Gibson - Environmental Remediation
625 Broadway
Albany, NY 12233-7012 (518) 402-9757

Ms. Nancy Pinamonti - Region 1
SUNY at Stonybrook 50 Circle Road
Stonybrook, NY 11790-3409 (631) 444-0202

You may expect a response to your request by **4/6/2009.**

If I can be of further assistance, please contact me at (518) 402-9522 . Refer to request number ***09-505*** , if you write or call.

Sincerely,

RB for Ruth Earl

Ruth L. Earl
Records Access Officer

ARCADIS
Infrastructure, environment, buildings

ARCADIS
Two Huntington Quadrangle
Suite 1S10
Melville
New York 11747
Tel 631.249.7600
Fax 631.249.7610

Transmittal Letter

To:
Marshal Dan Dutton
Nassau County Fire Commission
Office of Fire Marshal
899 Jerusalem Avenue,
P.O box 128
Uniondale, New York 11553-0128

Copies:
Andrew Enigk (ARCADIS)

From:
Soma Das

Date:
May 1, 2009

Subject:
Application for Public Access to Records

ARCADIS Project No.:
B0032305.0001.00006

We are sending you:

☒ **Attached** ☐ **Under Separate Cover Via _____ the Following Items:**

☐ Shop Drawings ☐ Plans ☐ Specifications ☐ Change Order
☐ Prints ☐ Samples ☐ Copy of Letter ☐ Reports
☒ Other: Application and Access Request Addresses Table

Copies	Date	Drawing No.	Rev.	Description	Action*
1	05/01/2009			Application for Public Access to Records	FA
1	05/01/2009			Access Request Addresses Table	FA

Action*

☐ A Approved ☐ CR Correct and Resubmit ☐ Resubmit _____ Copies
☐ AN Approved As Noted ☐ F File ☐ Return _____ Copies
☐ AS As Requested ☒ FA For Approval ☐ Review and Comment
☐ Other:

Mailing Method

☒ U.S. Postal Service 1st Class ☐ Courier/Hand Delivery ☐ FedEx Priority Overnight ☐ FedEx 2-Day Delivery
☐ Certified/Registered Mail ☐ United Parcel Service (UPS) ☐ FedEx Standard Overnight ☐ FedEx Economy
☐ Other:

Comments: Per your telephone conversation with Andrew Enigk of ARCADIS on May 1, 2009, please find the attached Application for Public Access to Records and Access Request Addresses for your review and response. Please return the completed application to Soma Das located at the ARCADIS office located in Melville, NY (address provided above).

Enigk, Andrew

From: Alicia Barraza [aabarraz@gw.dec.state.ny.us]
Sent: Wednesday, July 28, 2010 10:11 AM
To: Enigk, Andrew
Subject: Re: Bayer Hicksville - Background Information Search
Attachments: report.v00416.2005-05.VI_Cleanup_Report.pdf; hicksville DPW waste generation.pdf

I spoke with the project manager for the Coral Graphics site. He stated that since there were no appreciable CVOCs detected in soil or groundwater, there was no need to evaluate vapor intrusion. Coral Graphics mostly uses this building as a storage warehouse. They remediated some dry wells for SVOCs and metals. There is no groundwater contamination that is attributable to this site. The final cleanup report is attached below. If you look at section 3.4, the report states that "any compounds detected above their respective groundwater standard are a result of an upgradient source and not the subject facility".
Regarding the Hicksville DPW, attached below is the shipment report for hazardous wastes from this facility. Note that this is the only waste generated under their EPA ID number (NYD982789737) for any time period. The manifests are also available if you want copies. Hope this helps. Let me know if you have questions or need something else.

Alicia

>>> "Enigk, Andrew" <Andrew.Enigk@arcadis-us.com> 7/27/2010 8:55 AM >>>
Alicia,

During the background information search ARCADIS has been performing on businesses south of the Bayer Hicksville site, we have encountered a former business, Coral Graphics (building now occupied by Finishing Inc. Dynamic Graphics)(Section 46, Block 504, Lot 140), that executed a Voluntary Cleanup Agreement (VCA) with the NYSDEC on February 26, 2001. The information was found in a database search performed by Environmental Data Resources, Inc. (EDR) and was verified by searching the NYSDEC Environmental Site Remediation (ESR) Database. The site information used for the ESR database search is as follows:

Site Name: Coral Graphics, Inc. (327 New South Road, Hicksville, NY 11801) Site Code: V00416

Program: Voluntary Cleanup Program

Classification: A

Region: 1

County: Nassau

Information provided in the NYSDEC's database indicates that indoor air sampling was performed at this facility to verify soil vapor intrusion was not an issue. We were wondering if the NYSDEC or NYSDOH could provide any information on soil vapor or indoor air sampling related to this site.

In addition to the above business, the EDR search also provided records indicating the offsite shipment of hazardous wastes by the Hicksville Department of Public Works (DPW) located at the corner of New South Road and Morris Street. No address information was provided or was able to be found using various other searches online. The DPW was listed as a RCRA - Large Quantity Generator (LQG) in 1989 and 1992 and a RCRA-Conditionally Exempt Small Quantity Generator (CESQG) in 1990 and 1991. It would be helpful if the NYSDEC could provide records of the waste shipments, manifest information, or any other information pertaining to the Hicksville DPW activities at this location.

Please don't hesitate to contact John Brussel at 315.671.9441 or me with any questions.

Thank you.

Andrew C. Enigk | Project Environmental Scientist | andrew.enigk@arcadis-us.com<mailto:firstname.lastname@arcadis-us.com>
ARCADIS U.S., Inc. | 6723 Towpath Road, P.O. Box 66 | Syracuse, NY, 13057-0066 T. 315.671.9548 | F. 315.449.4111 www.arcadis-us.com<http://www.arcadis-us.com/>
ARCADIS, Imagine the result
Please consider the environment before printing this email.

New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials

GEN / OFFEROR, WASTE SHIPPED TO WHERE

SEARCH CRITERIA: **Generator starts with 'NYD982789737'.**

GEN / OFFEROR ID: **NYD982789737**
NAME: OYSTER BAY TOWN DEPT OF PUBLIC WORKS
LOCATION ADDRESS: NEW SOUTH RD & MORRIS ST, HICKSVILLE, NY 11801
MAILING ADDRESS: 150 MILLER PLACE, SYOSSET, NY 11791

TSDF / RECEIVER ID: **NYD000691949**
NAME: REPUBLIC ENVIRONMENTAL
LOCATION ADDRESS: 340 EASTERN PKWY, FARMINGDALE, NY 11735 - 2715
MAILING ADDRESS: 240-360 EASTERN PKWY, FARMINGDALE, NY 11735

PAGE #	LINE #	GEN / OFFEROR SHIPPED DATE	TSDF / REC REC'D DATE	TRANS #1 RCRA ID	TRANS #2 RCRA ID	TOTAL QTY / VOL	UNIT WT #	CONTAINER TYPE	HANDLING CODE	MGMT CODE	WASTE CODE(S)	SPECIFIC GRAVITY
MANIFEST NO:		**NYB2109645**										
	1	02/23/1990	02/23/1990	NYD000691949		165 gal	3	DF	T		D002	1.00
	2	02/23/1990	02/23/1990	NYD000691949		165 gal	3	DF	T		D002	1.00
MANIFEST NO:		**NYB2223927**										
	1	05/21/1991	05/21/1991	NYD000691949		100 lbs	1	DM	T		D001	1.00
	2	05/21/1991	05/21/1991	NYD000691949		300 lbs	3	DM	T		U226	1.00

TOTAL QUANTITY FOR 'B' (Kg/Tons): **0.00 / 0.00**
TOTAL QUANTITY FOR 'R' (Kg/Tons): **0.00 / 0.00**
TOTAL QUANTITY FOR 'L' (Kg/Tons): **0.00 / 0.00**
TOTAL QUANTITY FOR 'T' (Kg/Tons): **1,429.81 / 1.57**

TOTAL QUANTITY SHIPPED TO TSDF / RECEIVER (Kg/Tons): **1,429.81 / 1.57**
TSDF / RECEIVER ID: **NYD000691949 -REPUBLIC ENVIRONMENTAL**

TSDF / RECEIVER ID: NYD082785429

NAME: CHEMICAL POLLUTION CONTROL

LOCATION ADDRESS: 120 SOUTH 4TH STREET, BAY SHORE, NY 11706

MAILING ADDRESS: 120 S 4TH ST, BAY SHORE, NY 11706 - 1296

PAGE #	LINE #	GEN / OFFEROR SHIPPED DATE	TSDF / REC REC'D DATE	TRANS #1 RCRA ID	TRANS #2 RCRA ID	TOTAL QTY / VOL	UNIT WT #	CONTAINER TYPE	HANDLING CODE	MGMT CODE	WASTE CODE(S)	SPECIFIC GRAVITY
MANIFEST NO:		**NYA8317089**										
	1	10/13/1989	10/16/1989	NYD006801245		335	gal	5 DM	B		D001	1.00
MANIFEST NO:		**NYB5290758**										
	1	07/16/1992	07/17/1992	NYD980592570		1563	gal	1 TT	T		D002	1.20
MANIFEST NO:		**NYB5290785**										
	1	07/22/1992	07/22/1992	NYD980592570		450	gal	1 TT	T		D002	1.20

TOTAL QUANTITY FOR 'B' (Kg/Tons): 1,269.95 / 1.40

TOTAL QUANTITY FOR 'R' (Kg/Tons): 0.00 / 0.00

TOTAL QUANTITY FOR 'L' (Kg/Tons): 0.00 / 0.00

TOTAL QUANTITY FOR 'T' (Kg/Tons): 9,135.36 / 10.05

TOTAL QUANTITY SHIPPED TO TSDF / RECEIVER (Kg/Tons): 10,405.31 / 11.45

TSDF / RECEIVER ID: NYD082785429 -CHEMICAL POLLUTION CONTROL

TSDF / RECEIVER ID: OHD980700942

NAME: REPUBLIC ENVIRONMENTAL SYSTEMS

LOCATION ADDRESS: 716 N IRWIN ST, DAYTON, OH 45403

MAILING ADDRESS: 716 N IRWIN ST, DAYTON, OH 45403

PAGE #	LINE #	GEN / OFFEROR SHIPPED DATE	TSDF / REC REC'D DATE	TRANS #1 RCRA ID	TRANS #2 RCRA ID	TOTAL QTY / VOL	UNIT WT #	CONTAINER TYPE	HANDLING CODE	MGMT CODE	WASTE CODE(S)	SPECIFIC GRAVITY
MANIFEST NO:		**NYB2110788**										
	1	03/13/1990	03/14/1990	NJD054126164		245	gal	7 DM	B		F003	1.00
	2	03/13/1990	03/14/1990	NJD054126164		3630	gal	66 DM	B		D001	1.00
	3	03/13/1990	03/14/1990	NJD054126164		55	gal	1 DM	B		F005	1.00
MANIFEST NO:		**NYB2112885**										
	1	03/29/1990	03/30/1990	NYD000691949	PAD085690592	935	gal	17 DM	B		D001	1.00
	2	03/29/1990	03/30/1990	NYD000691949	PAD085690592	220	gal	4 DM	B		F003	1.00
MANIFEST NO:		**NYB2115963**										
	1	12/07/1990	12/14/1990	NYD000691949	NYD000691949	440	gal	8 DM	B		D001	1.00
MANIFEST NO:		**NYB2242296**										
	1	05/03/1991	05/24/1991	NYD000691949	PAD085690592	255	gal	3 DM	B		D001	1.00

TOTAL QUANTITY FOR 'B' (Kg/Tons): 21,858.91 / 24.04 **TOTAL QUANTITY FOR 'R' (Kg/Tons): 0.00 / 0.00**

TOTAL QUANTITY FOR 'L' (Kg/Tons): 0.00 / 0.00 **TOTAL QUANTITY FOR 'T' (Kg/Tons): 0.00 / 0.00**

TOTAL QUANTITY SHIPPED TO TSDF / RECEIVER (Kg/Tons): 21,858.91 / 24.04

TSDF / RECEIVER ID: OHD980700942 -REPUBLIC ENVIRONMENTAL SYSTEMS

TOTAL QUANTITY SHIPPED FROM GEN / OFFEROR (Kg/Tons): 33,694.03 / 37.06

GEN / OFFEROR ID: NYD982789737 -OYSTER BAY TOWN DEPT OF PUBLIC WORKS

TOTAL QUANTITY FOR 'B' (Kg/Tons): 23,128.86 / 25.44 **TOTAL QUANTITY FOR 'R' (Kg/Tons): 0.00 / 0.00**

TOTAL QUANTITY FOR 'L' (Kg/Tons): 0.00 / 0.00 **TOTAL QUANTITY FOR 'T' (Kg/Tons): 10,565.17 / 11.62**

TOTAL QUANTITY SHIPPED TO ALL TSDF / RECEIVERS IN REPORT (Kg/Tons): 33,694.03 / 37.06

Voluntary Investigation Cleanup Report

Volume I

Coral Graphics, Inc.

327 New South Road
Hicksville, New York

NP&V Job No. 01075

Revised
May, 2005

Voluntary Investigation Cleanup Report

Coral Graphics, Inc.

327 New South Road
Hicksville, New York

Prepared by:

Nelson, Pope & Voorhis, LLC
572 Walt Whitman Road
Melville, New York 11747
(631) 427-5665
Contact: Charles J. Voorhis; CEP, AICP
2 copies

Prepared for:

Frank Cappo
Coral Graphics, Inc.
840 Broadway
Hicksville, New York 11801
1 Copy

For Submission to:

Robert Stewart
New York State Department of
Environmental Conservation
Division of Environmental Remediation
Region 1
Building 40-SUNY
Stony Brook, New York 11790
3 copies

Kevin Carpenter
New York State Department of
Environmental Conservation
50 Wolf Road, Room 242
Albany, New York 12233-7010
1 copy

James LaBarron
New York State Department of
Environmental Conservation
50 Wolf Road, Room 248
Albany, New York 12233-7010
1 copy

Denise D'Ambrosio
New York State Department of
Environmental Conservation
200 White Plains Road, 5th Floor
Tarrytown, New York 10591-5805
1 copy

Lawrence P. Schnapf, Esq.
Schnapf & Associates
55 E. 87th St., 8th Floor
New York , NY 10128
1 copy

Ken Goldstien
Malcolm Pirnie
104 Corporate Park Drive
White Plains, New York 10602
1 copy

TABLE OF CONTENTS

FIGURES

TABLES

TABLE OF CONTENTS, CON'T

TABLES, CON'T

APPENDICES

VOLUME II

1.0 SUMMARY

Program Objectives

The Voluntary Cleanup Program (VCP) Investigation conducted at the subject site consists of a cooperative approach between the New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH) and Coral Graphics, Inc. (Coral Graphics) to investigate and/or remediate the subject site and return the property to productive use.

The purpose of the Voluntary Cleanup Investigation is to determine what impacts former on-site activities have had upon the environmental quality of the subject site, specifically related to previous Phase I and Phase II investigations of the former septic system and former underground storage tank (UST) facilities.

The overall objective of the VCP is to remediate the site (if necessary) to a level that is protective of public health and the environment consistent with the proposed future use of the property. Upon successful completion of the remediation the NYSDEC will provide a release for remedial liability for the work conducted and the contaminants addressed.

Site Description and History

The subject property lies in the Hamlet of Hicksville, Town of Oyster Bay, County of Nassau, New York. The subject property consists of an approximately 1.0 acre developed parcel located on the east side of New South Road, north of Marvin Avenue.

The site is currently utilized as a warehouse facility for Coral Graphic Services Inc., which is headquartered at 840 South Broadway in Hicksville approximately 0.5 miles south of the subject site. The approximately 1-acre parcel is occupied by a single story masonry building with a footprint area of approximately 15,000 square feet (SF) and was constructed between 1953 and 1966. A majority of the building (approximately 13,400 SF), is used for storage space while the remaining 1,600 SF is used as office space. The building is used for the storage of paper goods, equipment and office supplies. Prior occupants of the facility include South Nassau Control Corporation, a division of Oceanside Launderers and Busada Manufacturing Corporation. South Nassau Control Corporation reportedly occupied the building for seven years where they reportedly stored and blended detergents in the warehouse space. Busada Manufacturing was involved in the extrusion of plastic tubing and pipes by employing plastic resins and other compounds. The facility was formerly serviced by an on-site septic system located on the south side of the warehouse building for the disposal of sanitary wastes, but is now serviced by the Nassau County municipal sewer system. A 3,000 gallon UST used for the storage of fuel heating oil is located south of the facility building and was abandoned in place on January 28, 1994. The UST was replaced with a 1,500 gallon aboveground storage tank (AST) located along the eastern wall of the building that is maintained within a secondary containment structure. Prior documents involving the environmental quality of the site include a Phase I Environmental Site

Assessment (ESA) conducted by Malcom Pirnie dated May 2000, and an initial Phase II ESA conducted by Malcolm Pirnie dated August 2000.

The Malcolm Pirnie Phase II ESA consisted of a soil and groundwater sampling and analysis program which also included a focused geophysical survey to locate an underground fuel oil storage tank and a septic system which formerly serviced the site. Two synoptic rounds of groundwater elevation measurements were collected from the four temporary monitoring wells installed at the site. Groundwater was found to occur under unconfined conditions within the Upper Glacial aquifer at elevations ranging from 68.15 feet (ft) to 68.42 ft above the Nassau County datum or at a depth of approximately 58 ft below surface grade. Based on these measurements, the general direction of groundwater flow underlying the site was determined to be towards the southwest and exhibited a hydraulic gradient of 0.003 ft/ft. However, it should be noted that prior studies conducted and the Hooker Ruco Polymer and Northrop Gruman facilities indicate that groundwater flow may be in a more southerly to south-easterly direction. At this time it is unclear whether the discrepancy is the result of undetected on-site conditions or possible calculation errors.

Results of the investigation revealed that groundwater at the site was impacted by releases to the environment consisting primarily of tetrachloroethane (TCA) with acetone, benzene, toluene, ethylbenzene, xylenes and several metals also being detected. Impacted groundwater was found to be primarily in the area of the subject property south of the facility building. Groundwater impacts were also detected in samples collected from the sites upgradient monitoring wells indicating potential contribution from an off-site source. Geophysical survey results revealed the presence of an underground fuel oil UST and a former on-site septic system. In addition, during the Phase II ESA, three (3) storm drains were observed east of the facility building. However, no samples were collected from these potential source areas at that time.

The laboratory analysis performed on the groundwater samples revealed the presence of several volatile organic compounds which included acetone 1,1,1-TCA, toluene, ethylbenzene, xylenes and phenanthrene. Of these compounds only 1,1,1-TCA, benzene and toluene were detected above their respective NYS Ambient Groundwater Quality Standards and Guidance Values. These exceedences were found to occur in the area of the former UST and on-site septic system.

It is noted that three sites adjacent to the subject site, but <u>not</u> the subject site, are listed on several Federal and State regulatory databases. These sites consist of Hooker Chemical/Ruco Polymer, Northrop/Grumman Aerospace Corporation and the Naval Weapons Industrial Reserve Plant and have been listed as either NPL CORRACTS and/or CERCLIS sites. According to Northrop/Grumman reports, the subject site is located approximately 500 feet west (and downgradient based on site investigations) of a commingled total volatile organic (TVOC) plume which originates from Hooker/Ruco, Northrop/Grumman and the Naval Weapons Industrial Reserve Plant. The initial Phase II investigation did not identify an on-site source of groundwater contamination and has concluded that groundwater contamination most likely is originating from an off-site area of contamination along the Northrop/Grumman and Hooker Chemical site borders. The site has not been identified on any Federal, State and local regulatory agency databases.

Investigation Activities

The investigation of the site was divided into two (2) separate phases as well as supplemental activities requested by the NYSDEC and Nassau County Department of Health (NCDH) based on conditions revealed during field activities.

Phase I of site investigative activities consisted of the collection of soil and groundwater samples as well as an inventory of facility drainage and/or leaching structures in order to locate potential source areas of contamination. Results obtained during this phase were used to identify the origin of contamination and determine the placement of monitoring well locations.

Inspection of the interior and exterior of the facility building was to be conducted to identify the presence of any floor drains, slop sinks, drywells or other related drainage structures not previously detected at the subject site. Activities related to this inventory were undertaken in the presence of NYSDEC and NCDOH personnel and any encountered structures were then further investigated to determine their point of discharge. Procedures utilized to identify discharge points included interviews with facility personnel, FOIL searches with appropriate agencies and/or other visual inspection techniques. Based on the results of inspection, outfall piping was observed in each of the open grate storm drains located on the subject property. As a result, the NYSDEC and NCDOH requested that the discharge points for these drywells be determined and this investigation was conducted as a supplemental activity.

Two (2) samples (1 sediment and 1 soil) were collected from two of the three (3) existing on-site storm drains located in the eastern portion of the site (SP-1 and SP-2). No sample was collected from SP-3 located at the bottom of the loading bay since it had a solid bottom and acted as a distribution drain directing runoff to an overflow pool. Samples were collected from the bottom of each pool at an interval of 0 to 2 ft. In addition, another sample was also collected at the 10 to 12 ft interval below the bottom of each storm drain in the event that bottom soils had been removed as part of previous storm drain cleanouts conducted by previous occupants of the on-site facility.

The samples were collected with Geoprobe® direct push technology using a two (2) ft core barrel sampling device. Cores were monitored in the field to optimize the depth of the second sample to secure sample above virgin material.

One (1) soil sample (SP-5) was collected from soils underlying the former on-site UST located south of the existing facility building. According to the Malcom Pirnie Phase I, the UST was abandoned in place in January of 1994 and no information was available regarding soil or groundwater quality impacts that may have resulted from the use of the tank for the storage of fuel oil. Samples were collected continuously to a depth of 20 ft below surface grade utilizing Geoprobe direct push technology. Each sample was screened with a photoionization detector (PID) for the presence of volatile organic compounds and the sample exhibiting the highest PID reading was submitted for laboratory analysis. If none of the screened samples registered a PID reading the sample from the 10 to 12 ft interval was submitted for analysis.

One (1) soil sample was collected from each of the former septic system leaching pools (SP-6 and SP-7) and the suspected drywell (SP-4) located south of the facility building. Soil samples were collected continuously within each structure utilizing Geoprobe direct push technology to determine the extent of backfill materials and the vertical depth of potentially impacted soils. A soil sample were collected below any backfill material at an interval of 0 to 2 ft beneath the former bottom of each structure.

A total of five (5) groundwater probes were installed to further delineate groundwater quality at the subject site. Three (3) probes (WP-1 through WP-3) were installed northwest, northeast and east of the facility building to provide adequate upgradient coverage of groundwater flowing onto the site. Groundwater samples from these locations were analyzed to determine if impacts previously identified at the site may be the result of off-site contamination migrating onto the subject property. The remaining two (2) probe locations were installed south of the facility building and were placed in locations to characterize groundwater quality in the vicinity of potential source areas identified on the subject site. These probes were also located downgradient of the three on-site storm drains and analytical results from these soil probe locations were used to identify if former discharges to these subsurface structures have contributed to groundwater contamination underlying the property. The first location was installed in the area of the suspected dry well located near the buildings southeast corner (WP-4). This location is downgradient of the abandoned UST as well as MW-3 installed during the previous Phase II investigation. The second location (WP-5) was located immediately adjacent to the former septic tank and in the vicinity of the former location of MW-4 installed during the previous Phase II investigation. Both former monitoring wells MW-3 and MW-4 were previously found to contain groundwater contamination above the regulatory standards for 1,1,1-TCA.

All sediment and soil samples collected during Phase I were analyzed for volatile organic compounds via EPA test method 8260, semi-volatile compounds via EPA test method 8270 and TCL metals via EPA method 6010. Groundwater samples collected during this phase were also analyzed for these compounds with the exception of the samples retrieved from WP-2 and WP-3. Due to poor sample recovery due to existing hydrogeologic conditions the sample from WP-2 could only be analyzed for volatile organic compounds and no sample could be retrieved from WP-3. All samples were analyzed by a NYSDOH Environmental Laboratory Approved Program (ELAP) CLP certified laboratory with Category B deliverables, using all appropriate QA/QC and sample tracking methods. All sample results were compared to the regulatory standards established by the NYSDEC in their Technical and Administrative Guidance Memorandum (TAGM) #4046 dated January 24, 1994.

Based on the results obtained during Phase I of the investigation only three (3), two (2) inch temporary monitoring wells were installed to more accurately determine the concentration of inorganic compounds in groundwater underlying the site. Several inorganic compounds were detected in Geoprobe groundwater samples collected and it was suspected that these levels may be due to elevated particulate levels present in these samples.

One (1) well (NPV-1) was placed upgradient of the facility building to monitor groundwater quality entering the property boundaries. The remaining two temporary wells were installed downgradient of the facility building. Each well was installed with a twenty (20) ft screen set to straddle the water table at a depth of approximately 61 ft bsg. Each well was used for the collection of groundwater samples as well as for water level measurements for groundwater flow characterization.

Temporary monitoring wells were installed using a Hollow Stem Auger (HAS) drill rig in accordance with the specifications outlined in the Work Plan. Each of the groundwater samples collected were analyzed for TAL metals via EPA method 6010.

Supplemental investigation activities conducted at the subject site consisted of determining the overflow discharge points for the open grate stormwater leaching pools located in the eastern portion of the site as well as any sampling necessary to determine if soils have been impacted by overflow discharges. The locations of the overflow pools were discovered through the use of ground penetrating radar (GPR) which revealed the presence of four (4) subsurface leaching pools on the subject site. In addition, based on site plan surveys of the property an additional sanitary leaching pool was also discovered on the southern side of the facility building and was also located based on GPR survey results. During investigative activities conducted in connection with the sanitary leaching pool, an overflow pool was also discovered to the west.

One (1) sediment sample was collected from each of the subsurface overflow stormwater pools as well as the additional sanitary pool. These samples were collected with Geoprobe® direct push technology using a two (2) ft core barrel sampling device. All sediment samples collected during the supplemental sampling activities were analyzed for volatile organic compounds via EPA test method 8260, semi-volatile compounds via EPA test method 8270 and TCL metals via EPA method 6010.

Exposure Assessment

Based on a review of environmental setting conditions and contaminated media, there is a limited potential for exposure of contaminants to human and environmental receptors. The only contaminated media identified at the site consists of the sediments and subsurface soils within the stormwater leaching pools present on the property. Exposure to these soils is unlikely due to depth and asphalt surface coverages which exist at the site. A review of groundwater sample results indicate that any compounds detected above their respective groundwater standard are a result of an upgradient source and not the subject facility, therefore the subject facility does not present an exposure risk with respect to groundwater resources.

Phase I Sampling and Investigation Results

Drainage and Leaching Structure Inventory

Inspection of the interior and exterior of the facility building was conducted to identify the presence of any floor drains, slop sinks, drywells or other related drainage structures not previously detected at the subject site. Activities related to this inventory were undertaken in the presence of NYSDEC and NCDH personnel and any encountered structures were further investigated to determine their point of discharge. Procedures utilized to identify discharge points included interviews with facility personnel, dye testing and/or other visual inspection techniques. Inspection of the facility building did not identify the presence of any drainage structures which would discharge liquid wastes directly to the subsurface. The only building discharges observed were related to sanitary wastewater disposal which is released into the local municipal sewer system.

Inspection of the outdoor stormwater discharge facilities (SP-1, SP-2 and SP-3) revealed the presence of discharge piping leading from each of the three surface discharge drywells located east of the facility building. SP-1 and SP-2 were observed to be soft bottom leaching pools, while SP-3 was noted to consist of a collection box which diverted runoff collected from the loading dock to a subsurface leaching pool located to the east. At the request of the NYSDEC and NCDH a Ground Penetrating Radar (GPR) survey was conducted to determine the location of any overflow pools which may be present on the site. Results of the survey detected the presence of four additional subsurface overflow pools located within the eastern property line. It was further requested by the NYSDEC and NCDH that these overflow pools be sampled according to the procedures utilized for sampling of the sites primary storm drains and that retrieved soils be analyzed for the full compliment of sampling parameters scheduled during previous sampling activities.

Soil Sampling-Existing On-site Storm Drains

Two (2) samples (1 sediment and 1 soil) were collected from two (2) of the existing on-site leaching pool storm drains located in the eastern portion of the site (SP-1 and SP-2). Samples were collected from the bottom of each pool at intervals of 0 to 2 ft and 10 ft to 12 ft, respectively. A review of the analytical results did not reveal the presence of any volatile organic compounds in either of the leaching pools sampled, however, several semi-volatile organic and inorganic (metals) compounds were detected in both the 0 to 2 ft and 10 to 12 ft sample intervals. Comparison of the results with the NYSDEC TAGM standards revealed that the only exceedances were found within the sediments collected from the 0 to 2 ft sample interval and consisted of the semi-volatile compounds 4-nitrophenol, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and indeno(1,2,3-cd)pyrene as well as the inorganic compounds cadmium and iron.

Soil Sampling–Former UST

One (1) sample (SP-5) was collected from soils adjacent to the abandoned on-site UST located south of the existing facility building. Samples were collected continuously to a depth of 20 ft below surface grade (bsg) and each sample was screened with a photoionization detector (PID) for the presence of total volatile organic compounds. In accordance with the procedures outlined in the Voluntary Cleanup Work Plan, the sample exhibiting the highest PID reading was then submitted for laboratory analysis. Results of the PID screening indicated the presence of total volatile organic compounds in each of the sample intervals retrieved with detections ranging from 20.2 parts per million (ppm) (16 ft to 20 ft) to 525 ppm (0 ft to 4 ft). As a result, the 0 ft to 4 ft interval was submitted to the laboratory for analysis. Analytical results did not reveal the presence of any volatile organic compounds in the sample collected from the 0 to 4 ft interval; however, several semi-volatile and inorganic compounds were detected. A review of the results indicated that the semi-volatile organic compounds chrysene and benzo(a)pyrene were found above their respective TAGM standards at respective concentrations of 670 ug/kg and 460 ug/kg. The only detected inorganic compounds found to exceed their respective TAGM standards were Beryllium, Cadmium and Iron.

Soil Sampling-Former Sanitary Leaching Pools and Suspected Drywell

One (1) soil sample was collected from each of the former septic system leaching pools (SP-6 and SP-7) and the suspected storm drain (SP-4) located south of the facility building. Soil samples were collected continuously within each structure to determine the extent of backfill materials and the vertical depth of potentially impacted soils. Continuous soil samples were collected from SP-6 and native soils were encountered at a depth of 18 ft bsg. As a result soil sample SP-6 was collected at an interval of 18 to 20 ft bsg. The secondary septic system leaching pool from which SP-7 was collected was found to be backfilled and abandoned in place. Continuous soil sampling results indicated that native subsurface soils were present at a depth of approximately 10 ft bsg and as a result soil sample SP-7 was collected from an interval of 10 to 12 ft bsg. Investigation of the suspected drywell located south of the facility building revealed that this former recharge structure was previously backfilled and abandoned in place. Results of continuous soil sampling encountered native soils beneath backfill material at a depth of approximately 18 ft bsg and as a result soil sample SP-4 was collected at an interval of 18 to 20 ft bsg.

Analytical results for samples collected from the former on-site septic system only detected two (2) volatile organic compounds which were found below their respective TAGM standards in soil sample SP-6 retrieved from the primary leaching pool. No volatile organic compounds were identified in soil sample SP-7 retrieved from the secondary leaching pool. In addition, analysis of the former septic system samples detected the presence of several semi-volatile and inorganic compounds in subsurface soils retrieved from each pool. However, none of the detected semi-volatile compounds and only two (2) of the inorganic compounds (cadmium and iron) were found to be above their respective TAGM levels.

Analytical results of SP-4 collected from the suspected on-site drywell south of the facility building did not indicate the presence of any volatile organic compound; however, several semi-volatile organic compounds all of which were below there respective TAGM standards were detected. Inorganic analysis of SP-4 also revealed the presence of several metals, of which, only two (2) (chromium and iron) were found to be above each of their individual TAGM regulatory standards.

Groundwater Probe Installation and Groundwater Sampling

Due to the compounds detected in soil/sediment samples which exceeded their respective TAGM standards five (5) groundwater probes were installed to delineate groundwater quality underlying the subject site and to aid in the placement of monitoring wells scheduled as part of the site investigation. Three (3) probes (WP-1 through WP-3) were installed northwest, northeast and east of the facility building to provide adequate upgradient coverage of groundwater flowing onto the site. The remaining two (2) probe locations (WP-4 and WP-5) were installed south of the facility building and were placed in locations to characterize groundwater quality in the vicinity of potential source areas.

With the exception of Geoprobe points WP-2 and WP-3 all groundwater samples were analyzed for volatile organic compounds via EPA test method 8260, semi-volatile compounds via EPA test method 8270 and TCL metals via EPA method 6010. Due to poor sample recovery resulting from existing hydrogeologic conditions, the sample from WP-2 could only be analyzed for volatile organic compounds and no sample could be retrieved from WP-3.

Analysis of the groundwater samples collected only detected the presence of volatile organic compounds in the two probe locations installed south of the facility building. The sample collected from WP-2 was found to contain acetone while the sample retrieved from WP-4 also detected the presence of acetone as well as cis-1,2-dichloroethene and tetrachloroethene of which only tetrachloroethene was found to exceed its respective TAGM standard. Several semi-volatile organic compounds were also detected, however these were only found in the sample retrieved from WP-4. All of the semi-volatile detections were found below their respective TAGM standards with the exception of benzo(b)flouranthene. All of the probe locations sampled detected the presence of several metals with 10 elements found above their respective TAGM standards and included antimony, arsenic beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese and sodium.

Phase II Sampling

Temporary Monitoring Well Installation

Based on the results obtained during Phase I of the investigation, three (3), two (2) inch temporary monitoring wells were installed to more accurately determine the concentration of inorganic compounds in groundwater underlying the site. Several inorganic compounds were detected in Geoprobe groundwater samples collected and it was suspected that these levels may be due to elevated particulate levels present in these samples.

One (1) well (MW-1) was placed upgradient of the facility building (adjacent to Geoprobe location WP-1) to monitor groundwater quality entering the property boundaries. The remaining two temporary wells (MW-2 and MW-3) were installed downgradient of the facility building, respectively adjacent to Geoprobe locations WP-5 and WP-4. Each of the temporary wells were sampled using low-flow methodology. Under this protocol, each well was purged with a 2-inch Grundfos Redi Flo-II pump at a rate of 200 to 500 milliliters per minute (ml/min) and drawdown was kept to within 0.3 ft. During purging the removed groundwater was monitored until pH, specific conductance, redox potential and dissolved oxygen stabilized to within acceptable ranges as outlined in the Voluntary Investigation Work Plan. In addition, purging continued until groundwater turbidity fell below 50 napholometric units (NTUs) to ensure that sufficient particulate matter had been removed from the sample.

Temporary Well Sampling Results

A review of the temporary well sampling results indicated the presence of several inorganic compounds in all of the wells sampled. However, none of the parameters were found to be above their respective TAGM standard.

Supplemental Investigative Activities

Ground Penetrating Radar Survey

A remote sensing ground penetrating radar field survey was performed over the eastern portion of the property utilizing a GSSI model SIR-2 with a 400 MHz antenna ground penetrating radar (GPR) unit.

The GPR system consisted of a control unit, control cable and a transducer. The GPR control unit transmits a trigger pulse at a normal repetition rate of 50 KHz. The pulse is then sent to the transmitter electronics in the transducer (antenna) via the control cable where the trigger pulses are transformed into bipolar pulses with higher amplitudes. The transformed pulse will vary in shape and frequency according to the transducer used. The GSSI system is capable of transmitting electromagnetic energy into the subsurface of the earth in the frequency range of 16 MHz to 2000 MHz. In the subsurface, reflections of the pulse occur at boundaries where there is a dielectric contrast (void, steel, soil type). The reflected portion of the signal travels back to the antenna and the control unit and is subsequently shown on the display of the computers color video monitor for interpolation.

A qualified technician specified a coordinate system on the planimetric surface to locate any subsurface dielectric anomalies on the premises. The operator used known knowledge of the subsurface soil composition to calibrate the SIR-2 system to site specific conditions. Factor settings such as range, gain, number of gain points, and scans per unit, are modified to yield the most accurate data to describe the subsurface conditions.

Upon finding a dielectric anomaly a more specific coordinate system was designed over the area to determine it's size, shape and orientation. The data collected during the survey was reviewed by the operator and compared against past experience, technical judgment and prior site knowledge to classify the anomalies.

The GPR survey was utilized to determine the presence and location of any subsurface overflow drywells or leaching pools.

Ground Penetrating Radar Survey Results

Results of the survey located four anomalies (suspected leaching pools) within the eastern boundary of the subject site. In addition, the suspected location of the cesspool originally sampled as SP-6 and SP-7 was found to be incorrect as a result of a review of as built drawings uncovered during a record search on the subject property. As a result, sampling was conducted at the confirmed location of this sanitary system; these samples are identified as CP-1 and CP-1-O.

Supplemental Leaching Pool and Cesspool Sampling and Results

Based on the results of the GPR survey, sampling of each additional leaching pool located on the subject property was conducted to determine if bottom sediments had been impacted by previous discharges to these structures.

Review of the analytical results indicates that leaching pools LP-4 and LP-8 were impacted with several semi-volatile organic compounds found above NYSDEC TAGM standards. In addition, cesspool CP-1 and LP-4 were found to contain several metals above their respective NYSDEC TAGM standards.

Interim Remedial Measures

On-site Drywells and Cesspool System

An interim remedial action was initiated for the removal of contaminated sediments from the on-site drywells exhibiting concentrations above NYSDEC TAGM standards and the former cesspool system.

The interim remedial action directed to remove liquids and sediments from impacted on-site drywells was conducted on December 12 and 30, 2003 at the Coral Graphic 327 New South Road facility. The activities conducted were in accordance with the recommendations of the NCDH in their letter dated July 18, 2003 and accepted by the NYSDEC and USEPA. The drywells targeted for remediation during this phase consisted of CP-1, SP-1/LP-7, SP-2/LP-9, LP-4 and LP-8.

Interim remedial activities began with the sampling of leaching pool liquids by Environmental Services, Inc. who was contracted to conduct the remediation of the leaching pools under the supervision of NP&V. Liquids were only encountered in leaching pools SP-1/LP-7, SP-2/LP-9, LP-4 and LP-8 and results of the sample analysis determined that all of the liquids could be disposed of at the Bergen Point Sewage Treatment Facility in West Babylon, New York. Liquids from each of the leaching pools were removed through use of a pump/tanker truck. A total of 3,000 gallons of liquid were removed from the four leaching pools.

Following removal of leaching pool liquids, sludge residue and underlying soils was removed from each of the pools through use of a Guzzler® vacuum truck. All of the sludge wastes were removed from each of the drywells and placed in a 15 yard roll-off containers. Approximately 13.5 cubic yards of material was removed from each of the drywells resulting in a total of approximately 67 cubic yards of material being removed from the site for disposal.

Following remediation activities and sampling, each leaching pool was backfilled to replace removed sediments. This was done prior to receipt of endpoint sample results as a precautionary measure due to concerns of the potential that the leaching pools could collapse under the weight of heavy equipment and vehicles which continually traverse the project site.

Endpoint sample results following remediation of the selected leaching pools revealed that no volatile organic, semi-volatile organic or metal compounds were detected above their respective NYSDEC TAGM Standards in any of the remaining soils within each of the leaching pools. The only exception consisted of Benzo(a)pyrene which was detected in SP-1 at 280 ug/kg and exceeds the 61 ug/kg TAGM standard for this compound.

Abandoned Fuel Oil Underground Storage Tank

During the installation of MW-3 on November 17, 2002, the abandoned fuel oil UST south of the warehouse building was inadvertently ruptured. Inspection of the tank following the incident revealed that it had been partially filled with concrete but not all of the product had been removed. As a result the NYSDEC issued a spill number 02-25285 for the incident and requested that the tank be excavated, the remaining fuel oil pumped off and the tank removed. In addition, the tank was also registered with NCDH.

Tank removal activities were conducted from May 29 to June 4, 2003. The subject tank was uncovered and all remaining fuel oil was removed and transported to an approved facility for disposal. Following removal of the residual fuel oil, the tank along with the encased concrete was removed and transported off-site for disposal. Inspection of the excavation did not indicate that any product had been release to the sub surface soils and a soil sample was collected and analyzed for the presence of volatile and semi-volatile organic compounds. Review of these results did not detect the presence of any of the analyzed volatile or semi-volatile organic constituents and the excavation was backfilled with clean fill and paved.

Data Usability Summary Report

DUSR is divided into six (6) individual reports for each collection set generated during the investigation. The data validation was performed according to the guidelines described in the NYSDEC, Division of Remediation, Guidance for Development of DUSRs. In addition, the data has been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and accepted except those analytes which have been rejected "R" (unreliable/unusable). Due to various quality control problems some analytes may have been qualified with a "J" (estimated), 'N" (presumtive evidence for the presence of the for the presence of the material), "U" (non-detect), or 'JN" (presumptive evidence for the presence of the material an estimated value) flag. All actions are detailed within each DUSR report.

Persons using the data generated as a result of this investigation should be aware that no result is guaranteed to be accurate even if it has passed all quality control tests. The main purpose of the DUSR is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for quality and data use.

The entire data assessment includes eight (8) water samples, twenty-two (22) soil samples, six (6) field blanks and six (6) trip blanks. All of the samples were shipped to Chemtech Laboratories for analysis and received in good condition. The samples were analyzed for Volatile Organic Analytes (EPA Method 8260), Semi-Volatile Organic Analytes (EPA Method 8270 and TAL Metals (EPA Method 6010).

All of the data reviewed was determined to be acceptable with noted data qualifiers where applicable.

Conclusions and Remediation Recommendations

Based on the results of the on-site investigation the following may be concluded:

1. The results of sediment sampling from leaching pools CP-1, SP-1/LP-7, SP-2/LP-9,, SP-4, SP-6, LP-4 and LP-8 revealed the presence of several semi-volatile organic compounds and/or metals above their respective NYSDEC TAGM standards. Soil samples collected from the other leaching structures observed at the site or revealed by use of GPR were not found to have any analyzed compounds above their respective TAGM standards.

2. Groundwater probe samples collected at the site detected several metals above their regulatory standards. These detections may be the result of sample turbidity and as a result, monitoring wells were installed to ensure the collection of non-turbid samples. Sampling of the temporary monitoring wells installed at the site using low flow methodology did not detect the presence of any metal compounds above their respective TOG 1.1.1 standards. The samples were not analyzed volatile and semi-volatile compounds since there was no appreciable groundwater contamination related to these compounds detected in the earlier groundwater probe samples.

3. A ground penetrating radar survey conducted at the site detected four (4) anomalies which were later revealed to be two (2) additional leaching pools and two (2) former cesspools which serviced the property.

4. Under an interim remediation program leaching pools CP-1, SP-1/LP-7, SP-2/LP-9, LP-4 and LP-8 were remediated and endpoint sample results did not detect the presence of any compounds above their respective TAGM standards except for Benzo(a)pyrene in SP-1 at 280 ug/kg.

5. An abandoned fuel oil UST, which was previously believed to have been removed, was encountered on the southeast side of the facility building. The UST was removed from the site and endpoint sample results collected from the excavation did not reveal the presence of any semi-volatile compounds above their respective regulatory standards.

Based on the sample results obtained during the investigation and the interim remedial measures conducted at the site no further investigative or remedial activities are recommended. While it is recognized that the sediment sample retrieved from SP-1 detected the presence of Benzo(a)Pyrene above its TAGM standard, it is felt that further remediation of the leaching pool is not warranted. All other constituents were less than applicable guidelines, Benzo(a)pyrene only marginally exceeds the guidance value and no groundwater impacts were encountered at the site. SP-1 was immediately backfilled with clean material following remediation due to safety concerns at the site. All of the other previously detected compounds identified during initial sampling of the leaching structure have been removed in compliance with appropriate regulatory standards and groundwater samples collected from the property have not detected the presence of Benzo(a)Pyrene. In addition, the detections of chromium and cadmium found respectively in samples SP-4 and SP-6 marginally exceed the TAGM standards established for these compounds and are not anticipated to present a significant threat to the public or environmental resources.

2.0 INTRODUCTION

2.1 Voluntary Cleanup Program Objectives

The Voluntary Cleanup Program (VCP) Investigation conducted at the subject site consists of a cooperative approach between the New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH) and Coral Graphics, Inc. (Coral Graphics) to investigate and/or remediate the subject site and return the property to productive use.

The purpose of the Voluntary Cleanup Investigation is to determine what impacts former on-site activities have had upon the environmental quality of the subject site, specifically related to previous Phase I and Phase II investigations of the former septic system and former underground storage tank (UST) facilities.

The overall objective of the VCP is to remediate the site (if necessary) to a level that is protective of public health and the environment consistent with the proposed future use of the property. Upon successful completion of the remediation the NYSDEC will provide a release for remedial liability for the work conducted and the contaminants addressed.

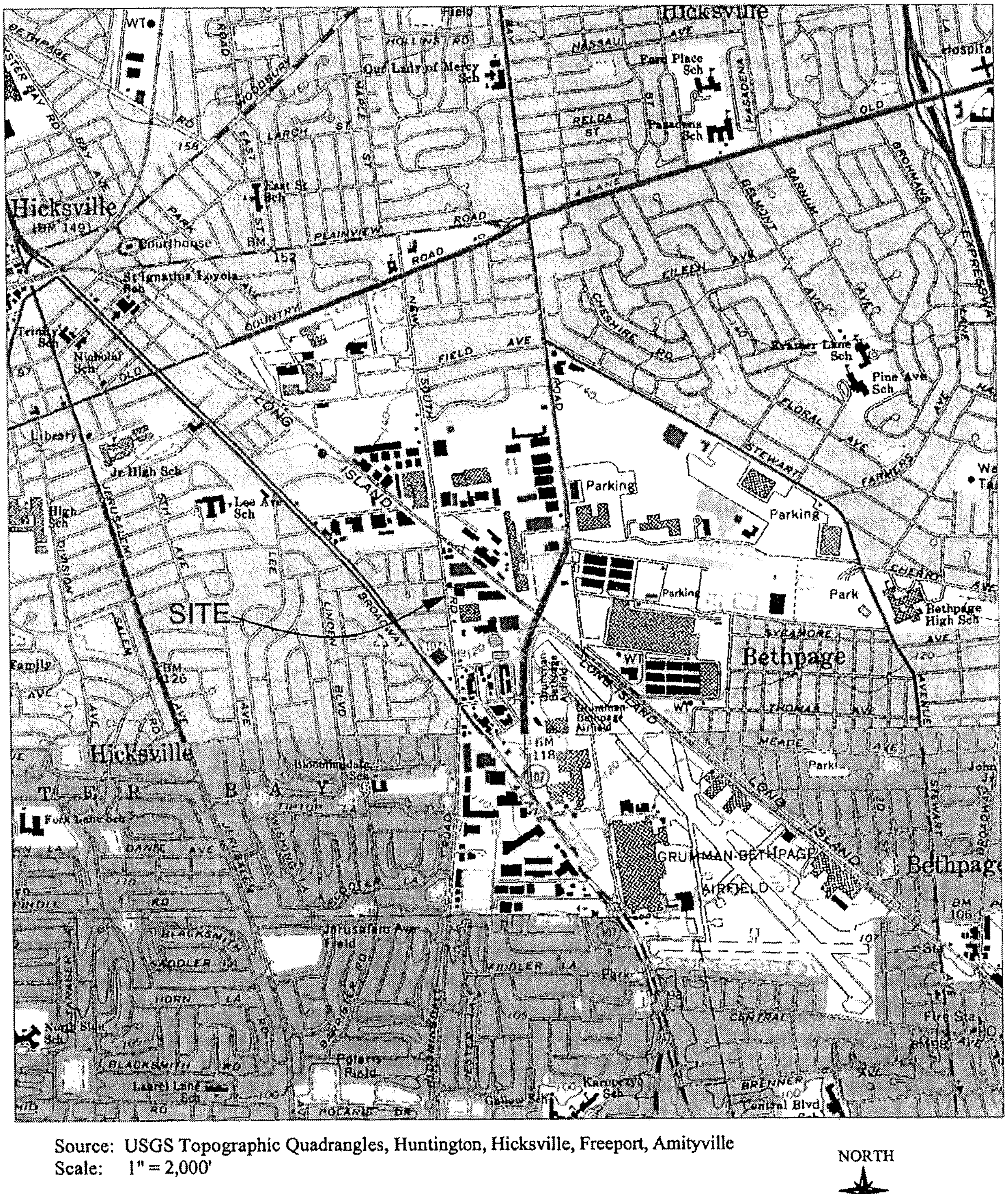
2.2 Site Description and History

The subject property lies in the Hamlet of Hicksville, Town of Oyster Bay, County of Nassau, New York. The subject property consists of an approximately 1.0 acre developed parcel located on the east side of New South Road, north of Marvin Avenue **(Figure 1)**.

The site is currently utilized as a warehouse facility for Coral Graphic Services Inc., which is headquartered at 840 South Broadway in Hicksville approximately 0.5 miles south of the subject site. The approximately 1-acre parcel is occupied by a single story masonry building with a footprint area of approximately 15,000 square feet (SF) and was constructed between 1953 and 1966. A majority of the building (approximately 13,400 SF), is used for storage space while the remaining 1,600 SF is used as office space. The building is used for the storage of paper goods, equipment and office supplies. Prior occupants of the facility include South Nassau Control Corporation, a division of Oceanside Launderers and Busada Manufacturing Corporation. South Nassau Control Corporation reportedly occupied the building for seven years where they reportedly stored and blended detergents in the warehouse space. Busada Manufacturing was involved in the extrusion of plastic tubing and pipes by employing plastic resins and other compounds. The facility was formerly serviced by an on-site septic system located on the south side of the warehouse building for the disposal of sanitary wastes, but is now serviced by the Nassau County municipal sewer system. A 3,000 gallon UST used for the storage of fuel heating oil is located south of the facility building and was abandoned in place on January 28, 1994. The UST was replaced with a 1,500 gallon aboveground storage tank (AST) located along the eastern wall of the building that is maintained within a secondary containment structure. The site layout and structures are depicted in **Figure 2**.

FIGURE 1

LOCATION MAP

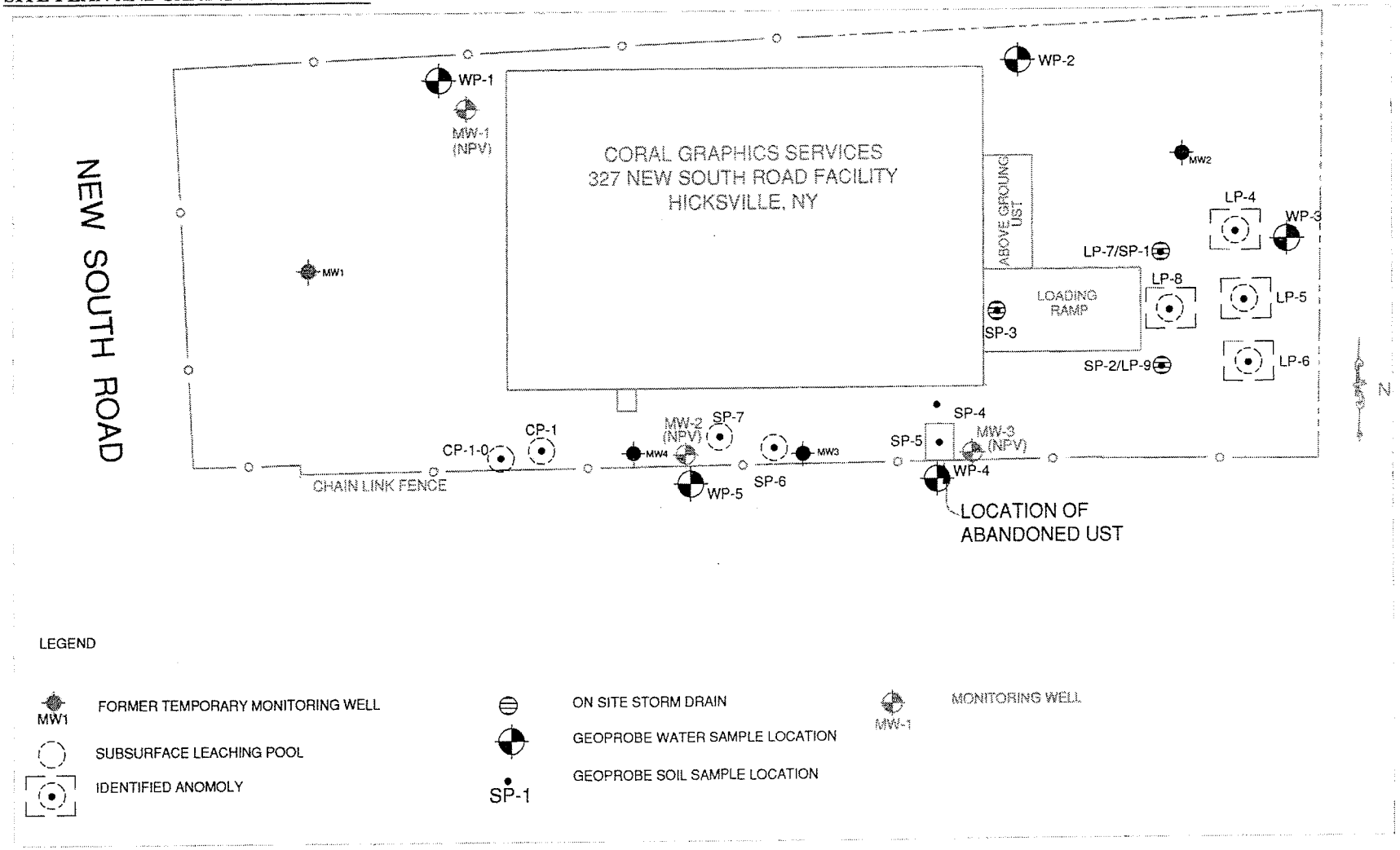


Source: USGS Topographic Quadrangles, Huntington, Hicksville, Freeport, Amityville
Scale: 1" = 2,000'

NORTH

NELSON POPE & VOORHIS, LLC
ENVIRONMENTAL • PLANNING • CONSULTING

FIGURE 2
SITE PLAN AND SAMPLE LOCATIONS



NORTH

NELSON POPE & VOORHIS, LLC
ENVIRONMENTAL • PLANNING • CONSULTING

Source: Survey prepared by Albert W. Tay, LLS, June 20, 2000
Scale: 1" = 30'

Prior documents involving the environmental quality of the site include a Phase I Environmental Site Assessment (ESA) conducted by Malcom Pirnie dated May 2000, and an initial Phase II ESA conducted by Malcolm Pirnie dated August 2000.

The Malcolm Pirnie Phase II ESA consisted of a soil and groundwater sampling and analysis program which also included a focused geophysical survey to locate an underground fuel oil storage tank and a septic system which formerly serviced the site. Two synoptic rounds of groundwater elevation measurements were collected from the four temporary monitoring wells installed at the site. Groundwater was found to occur under unconfined conditions within the Upper Glacial aquifer at elevations ranging from 68.15 feet (ft) to 68.42 ft above the Nassau County datum or at a depth of approximately 58 ft below surface grade. Based on these measurements, the general direction of groundwater flow underlying the site was determined to be towards the southwest and exhibited a hydraulic gradient of 0.003 ft/ft. However, it should be noted that prior studies conducted and the Hooker Ruco Polymer and Northrop Gruman facilities indicate that groundwater flow may be in a more southerly to south-easterly direction. At this time it is unclear whether the discrepancy is the result of undetected on-site conditions or possible calculation errors.

Results of the investigation revealed that groundwater at the site was impacted by releases to the environment consisting primarily of tetrachloroethane (TCA) with acetone, benzene, toluene, ethylbenzene, xylenes and several metals also being detected. Impacted groundwater was found to be primarily in the area of the subject property south of the facility building. Groundwater impacts were also detected in samples collected from the sites upgradient monitoring wells indicating potential contribution from an off-site source. Geophysical survey results revealed the presence of an underground fuel oil UST and a former on-site septic system. In addition, during the Phase II ESA, three (3) storm drains were observed east of the facility building. However, no samples were collected from these potential source areas at that time.

The laboratory analysis performed on the groundwater samples revealed the presence of several volatile organic compounds which included acetone 1,1,1-TCA, toluene, ethylbenzene, xylenes and phenanthrene. Of these compounds only 1,1,1-TCA, benzene and toluene were detected above their respective NYS Ambient Groundwater Quality Standards and Guidance Values. These exceedences were found to occur in the area of the former UST and on-site septic system.

It is noted that three sites adjacent to the subject site, but <u>not</u> the subject site, are listed on several Federal and State regulatory databases. These sites consist of Hooker Chemical/Ruco Polymer, Northrop/Grumman Aerospace Corporation and the Naval Weapons Industrial Reserve Plant and have been listed as either NPL CORRACTS and/or CERCLIS sites. According to Northrop/Grumman reports, the subject site is located approximately 500 feet west (and downgradient based on site investigations) of a commingled total volatile organic (TVOC) plume which originates from Hooker/Ruco, Northrop/Grumman and the Naval Weapons Industrial Reserve Plant. The initial Phase II investigation did not identify an on-site source of groundwater contamination and has concluded that groundwater contamination most likely is originating from an off-site area of contamination along the Northrop/Grumman and Hooker Chemical site borders. The site has not been identified on any Federal, State and local regulatory agency databases.

2.3 Investigation Activities

The investigation of the site was divided into two (2) separate phases as well as supplemental activities requested by the NYSDEC and Nassau County Department of Health (NCDH) based on conditions revealed during field activities. **Figure 2** presents the location of each area of concern and sampling points installed as part of the investigation.

Phase I of site investigative activities consisted of the collection of soil and groundwater samples as well as an inventory of facility drainage and/or leaching structures in order to locate potential source areas of contamination. Results obtained during this phase were used to identify the origin of contamination and determine the placement of monitoring well locations.

Inspection of the interior and exterior of the facility building was to be conducted to identify the presence of any floor drains, slop sinks, drywells or other related drainage structures not previously detected at the subject site. Activities related to this inventory were undertaken in the presence of NYSDEC and NCDOH personnel and any encountered structures were then further investigated to determine their point of discharge. Procedures utilized to identify discharge points included interviews with facility personnel, FOIL searches with appropriate agencies and/or other visual inspection techniques. Based on the results of inspection, outfall piping was observed in each of the open grate storm drains located on the subject property. As a result, the NYSDEC and NCDOH requested that the discharge points for these drywells be determined and this investigation was conducted as a supplemental activity.

Two (2) samples (1 sediment and 1 soil) were collected from two of the three (3) existing on-site storm drains located in the eastern portion of the site (SP-1 and SP-2). No sample was collected from SP-3 located at the bottom of the loading bay since it had a solid bottom and acted as a distribution drain directing runoff to an overflow pool. Samples were collected from the bottom of each pool at an interval of 0 to 2 ft. In addition, another sample was also collected at the 10 to 12 ft interval below the bottom of each storm drain in the event that bottom soils had been removed as part of previous storm drain cleanouts conducted by previous occupants of the on-site facility.

The samples were collected with Geoprobe® direct push technology using a two (2) ft core barrel sampling device. Cores were monitored in the field to optimize the depth of the second sample to secure sample above virgin material.

One (1) soil sample (SP-5) was collected from soils underlying the former on-site UST located south of the existing facility building. According to the Malcom Pirnie Phase I (**May, 2000**) the UST was abandoned in place in January of 1994 and no information was available regarding soil or groundwater quality impacts that may have resulted from the use of the tank for the storage of fuel oil. Samples were collected continuously to a depth of 20 ft below surface grade utilizing Geoprobe direct push technology. Each sample was screened with a photoionization detector (PID) for the presence of volatile organic compounds and the sample exhibiting the highest PID reading was submitted for laboratory analysis. If none of the screened samples registered a PID reading the sample from the 10 to 12 ft interval was submitted for analysis.

One (1) soil sample was collected from each of the former septic system leaching pools (SP-6 and SP-7) and the suspected drywell (SP-4) located south of the facility building. Soil samples were collected continuously within each structure utilizing Geoprobe direct push technology to determine the extent of backfill materials and the vertical depth of potentially impacted soils. A soil sample were collected below any backfill material at an interval of 0 to 2 ft beneath the former bottom of each structure.

A total of five (5) groundwater probes were installed to further delineate groundwater quality at the subject site. Three (3) probes (WP-1 through WP-3) were installed northwest, northeast and east of the facility building to provide adequate upgradient coverage of groundwater flowing onto the site. Groundwater samples from these locations were analyzed to determine if impacts previously identified at the site may be the result of off-site contamination migrating onto the subject property. The remaining two (2) probe locations were installed south of the facility building and were placed in locations to characterize groundwater quality in the vicinity of potential source areas identified on the subject site. These probes were also located downgradient of the three on-site storm drains and analytical results from these soil probe locations were used to identify if former discharges to these subsurface structures have contributed to groundwater contamination underlying the property. The first location was installed in the area of the suspected dry well located near the buildings southeast corner (WP-4). This location is downgradient of the abandoned UST as well as MW-3 installed during the previous Phase II investigation. The second location (WP-5) was located immediately adjacent to the former septic tank and in the vicinity of the former location of MW-4 installed during the previous Phase II investigation. Both former monitoring wells MW-3 and MW-4 were previously found to contain groundwater contamination above the regulatory standards for 1,1,1-TCA.

All sediment and soil samples collected during Phase I were analyzed for volatile organic compounds via EPA test method 8260, semi-volatile compounds via EPA test method 8270 and TCL metals via EPA method 6010. Groundwater samples collected during this phase were also analyzed for these compounds with the exception of the samples retrieved from WP-2 and WP-3. Due to poor sample recovery due to existing hydrogeologic conditions the sample from WP-2 could only be analyzed for volatile organic compounds and no sample could be retrieved from WP-3. All samples were analyzed by a NYSDOH Environmental Laboratory Approved Program (ELAP) CLP certified laboratory with Category B deliverables, using all appropriate QA/QC and sample tracking methods. All sample results were compared to the regulatory standards established by the NYSDEC in their Technical and Administrative Guidance Memorandum (TAGM) #4046 dated January 24, 1994.

Based on the results obtained during Phase I of the investigation only three (3), two (2) inch temporary monitoring wells were installed to more accurately determine the concentration of inorganic compounds in groundwater underlying the site. Several inorganic compounds were detected in Geoprobe groundwater samples collected and it was suspected that these levels may be due to elevated particulate levels present in these samples.

One (1) well (MW-1) was placed upgradient of the facility building (adjacent to Geoprobe location WP-1) to monitor groundwater quality entering the property boundaries. The remaining two temporary wells (MW-2 and MW-3) were installed downgradient of the facility building, respectively adjacent to Geoprobe locations WP-5 and WP-4 (**Figure 2**). Each well was installed with a twenty (20) ft screen set to straddle the water table at a depth of approximately 61 ft bsg. Each well was used for the collection of groundwater samples as well as for water level measurements for groundwater flow characterization.

Temporary monitoring wells were installed using a Hollow Stem Auger (HAS) drill rig in accordance with the specifications outlined in the Work Plan. Each of the groundwater samples collected were analyzed for TAL metals via EPA method 6010.

Supplemental investigation activities conducted at the subject site consisted of determining the overflow discharge points for the open grate stormwater leaching pools located in the eastern portion of the site as well as any sampling necessary to determine if soils have been impacted by overflow discharges. The locations of the overflow pools were discovered through the use of ground penetrating radar (GPR) which revealed the presence of four (4) subsurface leaching pools on the subject site. In addition, based on site plan surveys of the property an additional sanitary leaching pool was also discovered on the southern side of the facility building and was also located based on GPR survey results. During investigative activities conducted in connection with the sanitary leaching pool, an overflow pool was also discovered to the west.

One (1) sediment sample was collected from each of the subsurface overflow stormwater pools as well as the additional sanitary pool. These samples were collected with Geoprobe® direct push technology using a two (2) ft core barrel sampling device. All sediment samples collected during the supplemental sampling activities were analyzed for volatile organic compounds via EPA test method 8260, semi-volatile compounds via EPA test method 8270 and TCL metals via EPA method 6010.

3.0 ENVIRONMENTAL SETTING

3.1 Site/Area Geology

Figure 3 depicts the subsurface geologic structure in the vicinity of the subject site. The bedrock, which underlies Long Island, slopes south and east at a rate of 70 feet per mile, and the overlying sediments increase in thickness toward the south. The elevation of the top of the bedrock is approximately 1,225 feet below sea level in the area of the site. Bedrock is probably of Precambrian age, and is overlain by unconsolidated sediments of Cretaceous and Quaternary age. The Cretaceous sediments contain three major aquifers: the Lloyd, Magothy and the Upper Glacial.

The primary Cretaceous sediments on Long Island are the Raritan and Magothy Formations, which were deposited atop bedrock during the mid to late Cretaceous period (138 to 65 million years ago) as a result of sediment transport from highlands to the north of the island. The Raritan Formation consists of two members: the Lloyd Sand and the Raritan Clay. The Lloyd Sand contains the Lloyd Aquifer, which is separated from the overlying Magothy Aquifer by the impermeable Raritan Clay. The top of the Lloyd sand member is approximately 850 feet below sea level in the vicinity of the site, indicating a thickness of 375 feet, and the top of the Raritan clay is approximately 700 feet below sea level, indicating a thickness of 150 feet. The Magothy Formation and Matawan Group, which form the Magothy Aquifer, were deposited in the late Cretaceous (approximately 75 million years ago) following a period of erosion of the Raritan Clay. The Magothy deposits lie from a depth of 50 feet below sea level indicating a thickness of 600 feet.

The surface elevation of the project site lies at an elevation of about 94 feet above sea level, and, since the bottom of the Upper Glacial deposits are at approximately 50 feet below sea level, the total thickness of Upper Glacial deposits are approximately 144 feet in the vicinity of the subject site.

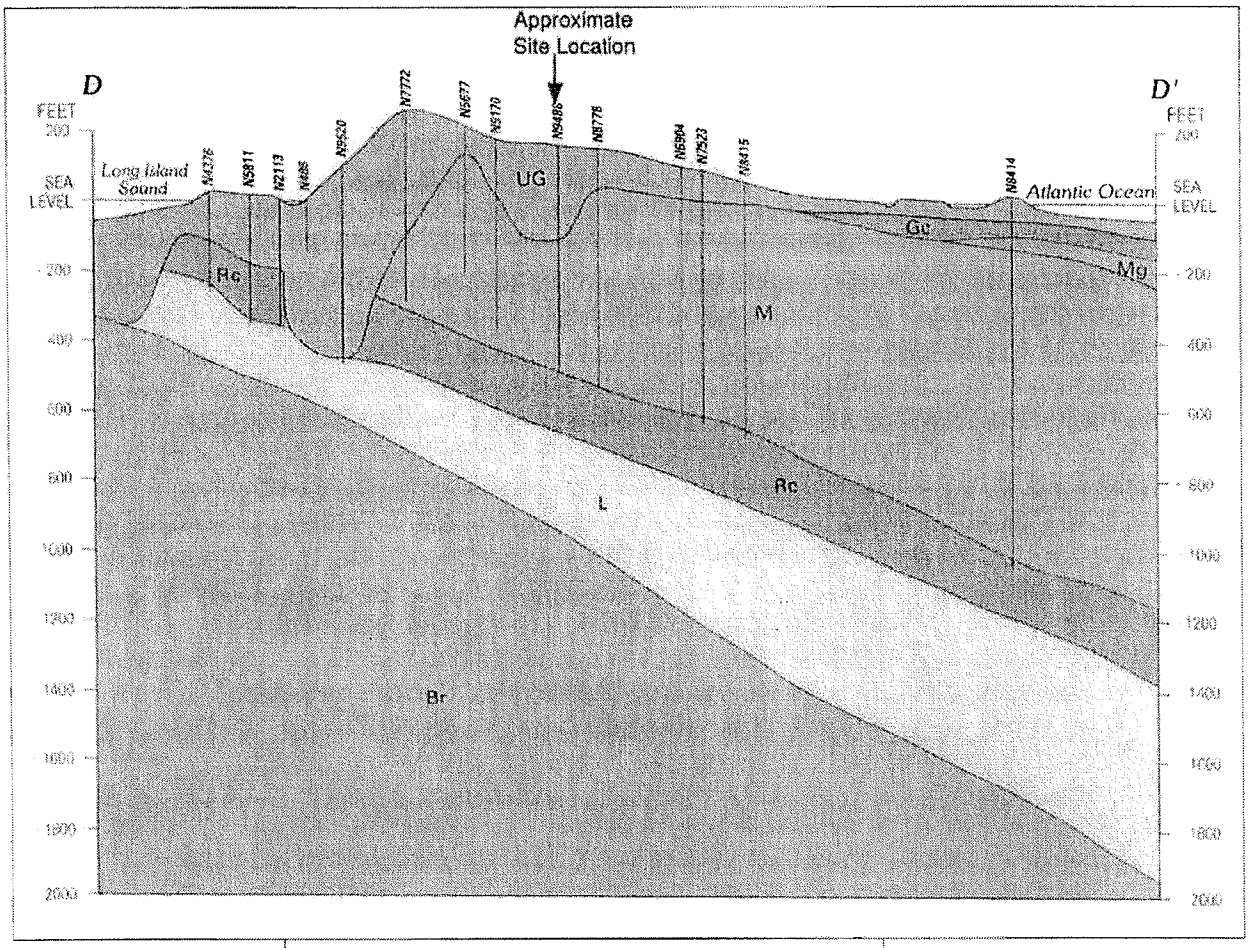
Samples collected from soil borings installed during monitoring well installation activities indicate that the site's subsurface soils are characteristic of outwash plain deposits. These soils consist primarily of tan medium to coarse-grained sand that were slightly well sorted with respect to grain size distribution. A gray clay lens was encountered in the northeastern portion of the property in the vicinity of temporary monitoring well MW-3 at a depth of approximately 70 feet below surface grade. None of the other borings installed at the site recorded the presence of clay beneath the site. It is believed that this lens is an isolated unit and is not extensive in extent beneath the site. A copy of the boring logs prepared by Land, Air, Water Environmental Services, Inc. are provided in **Appendix A**.

3.2 Site/Area Hydrogeology

Groundwater on Long Island is derived from precipitation. Precipitation entering the soils in the form of recharge passes through the unsaturated zone to a level below which all strata are

FIGURE 3

GEOLOGIC CROSS-SECTION



Source: Smolensky, Buxton& Shernoff
Scale: Not to Scale

NORTH

NELSON POPE & VOORHIS, LLC
ENVIRONMENTAL • PLANNING • CONSULTING

saturated. This level is referred to as the water table. In general, the groundwater table coincides with sea level on the north and south shores of Long Island, and rises in elevation toward the center of the Island. The high point of the parabola is referred to as the groundwater divide. Differences in groundwater elevation create a hydraulic gradient which causes groundwater to flow perpendicular to the contours of equal elevation, or generally toward the north and south shores from the middle of the Island (**Freeze and Cherry, 1979**). Near the shore, water entering the system tends to flow horizontally in a shallow flow system through the Upper Glacial Aquifer to be discharged from subsurface systems into streams or marine surface waters as subsurface outflow. Water that enters the system farther inland generally flows vertically to deeper aquifers before flowing toward the shores (**Krulikas, 1986**).

There are three major water-bearing units beneath the site, which are comprised of the Upper Glacial, Magothy and Lloyd aquifers (**Jensen and Soren, 1974; Koszalka, 1983**). The top altitude of the Upper Glacial aquifer is equal to the topographic elevation of the property, which is approximately 94 feet above sea level. The sediments within this aquifer consist of moderately to highly permeable outwash and ice-contact deposits, which yield groundwater's that are generally fresh and unconfined. The top of the Magothy lies 50 feet below sea level with a saturated thickness of 600 ft. (**Lubke, 1964**). The sediments of the Magothy are moderately to highly permeable with the more permeable soils found in the lower portions of the formation. The Magothy formation is also a primary source of subsurface water used for domestic and industrial purposes. The upper contact of the Lloyd aquifer lies at an elevation of 850 ft. below sea level with a saturated thickness of 375 ft. in the vicinity of the site (**Lubke, 1964**). These sediments are considered moderately permeable and may be utilized as sources of water supply but currently are not extensively developed. Bedrock is present at a depth of about 1,225 feet below sea level. The bedrock formation is relatively impermeable resulting in low water-yielding potential. As a result bedrock is not utilized as a source of groundwater.

The water table at the site is encountered at a depth of approximately 63 feet below ground surface (bgs). Groundwater flow direction beneath the site flows to the south-southeast (**Figure 4**) with a horizontal velocity of approximately 1 ft/day. Groundwater flow exhibits some vertical component due to the proximity of the site to the center of Long Island and the regional divide, which occurs 1 mile north of the site. This flow direction is consistent with regional groundwater flow, although localized mounding of the water table can be observed in monitoring wells located adjacent to storm drains several days after rainstorm events.

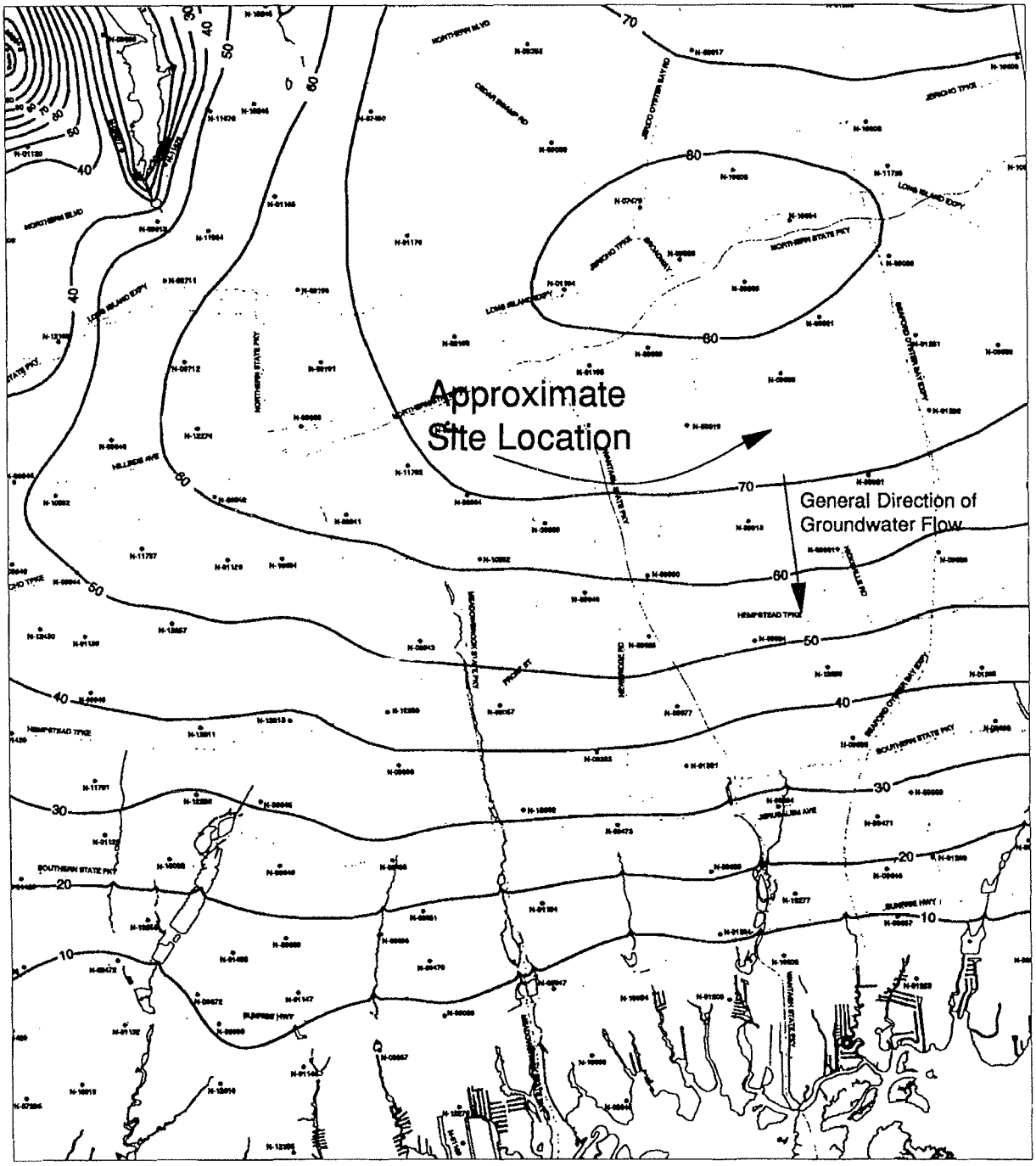
3.3 Surface Drainage

Stormwater runoff generated on the site is generally retained within the site by storm drains located east of the on-site facility building. These storm drains discharge to the subsurface and percolate into the underlying water table.

As the soil underlying the site has a high permeability, and the depth to groundwater is approximately 63 feet bgs, no surface water bodies or wetland vegetation are present

FIGURE 4

GROUND WATER FLOW MAP



Source: NCDPW Water Table Contour Map, 1998
Scale: 1" = 800'

NORTH

NELSON POPE & VOORHIS, LLC
ENVIRONMENTAL • PLANNING • CONSULTING

3.4 Exposure Assessment

Based on a review of environmental setting conditions and contaminated media, there is a limited potential for exposure of contaminants to human and environmental receptors. The only contaminated media identified at the site consists of the sediments and subsurface soils within the stormwater leaching pools present on the property. Exposure to these soils is unlikely due to depth and asphalt surface coverages which exist at the site. A review of groundwater sample results indicate that any compounds detected above their respective groundwater standard are a result of an upgradient source and not the subject facility, therefore the subject facility does not present an exposure risk with respect to groundwater resources.

4.0 VOLUNTARY CLEANUP INVESTIGATION RESULTS

4.1 Phase I Sampling and Investigation Results

4.1.1 Drainage and Leaching Structure Inventory

Inspection of the interior and exterior of the facility building was conducted to identify the presence of any floor drains, slop sinks, drywells or other related drainage structures not previously detected at the subject site. Activities related to this inventory were undertaken in the presence of NYSDEC and NCDH personnel and any encountered structures were further investigated to determine their point of discharge. Procedures utilized to identify discharge points included interviews with facility personnel, dye testing and/or other visual inspection techniques. Inspection of the facility building did not identify the presence of any drainage structures which would discharge liquid wastes directly to the subsurface. The only building discharges observed were related to sanitary wastewater disposal which is released into the local municipal sewer system.

Inspection of the outdoor stormwater discharge facilities (SP-1, SP-2 and SP-3) revealed the presence of discharge piping leading from each of the three surface discharge drywells located east of the facility building. SP-1 and SP-2 were observed to be soft bottom leaching pools, while SP-3 was noted to consist of a collection box which diverted runoff collected from the loading dock to a subsurface leaching pool located to the east. At the request of the NYSDEC and NCDH a Ground Penetrating Radar (GPR) survey was conducted to determine the location of any overflow pools which may be present on the site. Results of the survey detected the presence of four additional subsurface overflow pools located within the eastern property line. It was further requested by the NYSDEC and NCDH that these overflow pools be sampled according to the procedures utilized for sampling of the sites primary storm drains and that retrieved soils be analyzed for the full compliment of sampling parameters scheduled during previous sampling activities. The results of these sampling activities will be discussed further in **Section 4.3**.

4.1.2 Soil Sampling-Existing On-site Storm Drains

Two (2) samples (1 sediment and 1 soil) were collected from two (2) of the existing on-site leaching pool storm drains located in the eastern portion of the site (SP-1 and SP-2) (**Figure 2**). Samples were collected from the bottom of each pool at intervals of 0 to 2 ft and 10 ft to 12 ft, respectively. The analytical results for samples collected from each storm drain are summarized in **Tables 1** and **2**. The analytical data sheets are provided in **Appendix A**. A review of the analytical results did not reveal the presence of any volatile organic compounds in either of the leaching pools sampled, however, several semi-volatile organic and inorganic (metals) compounds were detected in both the 0 to 2 ft and 10 to 12 ft sample intervals. Comparison of the results with the NYSDEC TAGM standards revealed that the only exceedances were found within the sediments collected from the 0 to 2 ft sample interval and consisted of the semi-volatile compounds 4-nitrophenol, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and indeno(1,2,3-cd)pyrene as well as the inorganic compounds cadmium and iron.

Table 1

Soil Sampling Results (Volatiles and Semi-Volatiles)
Coral Graphics, 327 New South Road
Hicksville, New York

Analytical Compound	TAGM Standard (ug/KG)	Sample ID								
Volatile Organic Compounds		SP01 0'-2'	SP01 10'-12'	SP02 0'-2'	SP02 10'-12'	SP04 18'-20'	SP05 2'-4'	SP06 0'-2'	SP07 10'-12'	SP08 10'-12'
Acetone	200	ND	ND	ND	ND	ND	ND	36	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND	5.3	ND	ND
Semi-Volatile Organic Compounds										
Naphthalene	13,000	100 J	ND	47 J	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	36,400	740	ND	61 J	ND	ND	69 J	ND	ND	ND
Acenaphthylene	41,000	170 J	ND	61 J	ND	ND	ND	ND	ND	ND
Acenaphthene	50,000	2,200	ND	340 J	ND	ND	150 J	ND	ND	ND
4-Nitrophenol	100	**950 J**	ND	**140 J**	ND	ND	ND	ND	ND	ND
Dibenzofuran	6,200	1,500	ND	230 J	ND	ND	97 J	ND	ND	ND
Fluorene	50,000	3,000	ND	430	ND	ND	210 J	ND	ND	ND
Phenanthrene	50,000	47,000	160 J	5,800 D	ND	41 J	1,500	150 J	140 J	80 J
Anthracene	50,000	2,900	ND	530	ND	ND	200 J	ND	ND	ND
Carbazole	NS	5,700 J	ND	650	ND	ND	190 J	ND	ND	ND
Floranthene	50,000	**65,000**	320 J	12,000 D	ND	82 J	1,200	250 J	150 J	120 J
Pyrene	50,000	**53,000**	200 J	11,000 D	ND	55 J	1,500	1,900	110 J	81 J
Butylbenzylphthalate	50,000	210 J	ND	ND	ND	ND	63	460	ND	ND
Benzo(a)anthracene	224	**17,000J**	67 J	**4,300 D**	ND	ND	450	170 J	44 J	ND
Chrysene	400	**26,000**	190 J	**5,500 D**	ND	ND	**670**	260 J	83 J	56 J
Bis(2-Ethylhexyl)phthalate	50,000	1,200 B	78 JB	220 JB	60 JB	56 JB	130 JB	280 JB	83 JB	ND
Di-n-octyl phthalate	50,000	240 J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	1,100	**27,000**	150 J	**11,000 D**	ND	ND	420	420	56 J	ND
Benzo(k)fluoranthene	1,100	**8,200 J**	180 J	**2,300 JD**	ND	ND	750	120	ND	ND
Benzo(a)pyrene	61	**18,000 J**	120 J	**4,300 D**	ND	ND	**460**	ND	52 J	ND
Indeno(1,2,3-cd)pyrene	3,200	**6,300 J**	62 J	710	ND	ND	57 J	ND	ND	ND

Table 2

Soil Sampling Results (Metals)
Coral Graphics, 327 New South Road
Hicksville, New York

Analytical Compound / Metals	TAGM Standard (mg/KG)	Eastern USA Background (mg/KG)	Sample ID								
			SP01 0'-2'	SP01 10'-12'	SP02 0'-2'	SP02 10'-12'	SP04 18'-20'	SP05 2'-4'	SP06 0'-2'	SP07 10'-12'	SP08 10'-12'
Aluminum	SB	33,000	1,320	652	637	364	1,600	3,290	730	1,080	1,390
Antimony	SB	N/A	0.89 B	ND	ND	0.30 B	0.31 B	0.83 B	0.55 B	0.27 B	0.33 B
Arsenic	7.5 or SB	3-12	1.2	0.48 B	0.85 B	1.2	1.6	4	2.2	0.72 B	0.89 B
Barium	300 or SB	15-600	11.1 B	2.6 B	11.8 B	1.3 B	7.1 B	15.8 B	6.2 B	5.9 B	6.3 B
Beryllium	0.16 or SB	0-1.7	0.06 B	0.07 B	0.04 B	0.04 B	0.12 B	**0.16 B**	0.09 B	0.09 B	0.09 B
Cadmium	0.1 or SB	0.1 or 1.0	**0.58 B**	0.08 B	**0.22 B**	ND	0.08 B	**0.18 B**	**0.25 B**	ND	ND
Calcium	SB	130-35,000	1,760	385 B	508 B	234 B	1,880	23,100	354 B	879	482 B
Chromium	10 or SB	1.5-40	7.1	1.8	4.8	4.8	**10.3**	6.5	4.4	2.9	6.1
Cobalt	30 or SB	2.5-60	1.0 B	0.34 B	0.99 B	0.28 B	1.2 B	1.9 B	0.83 B	1 B	0.91 B
Copper	25 or SB	0.1-50	12.4	8.5	12.5	3	4	6	18.4	3.5	3.5
Iron	2,000 or SB	2,000-550,000	**4,750**	1,690	**2,150**	**2,020**	**5,400**	**4,950**	**2,430**	**2,110**	**2,630**
Lead	SB	200-500	15.5	0.99	17.7	0.25 B	0.45	64.5	80.4	0.93	0.80
Magnesium	SB	100-5,000	1,030	200 B	257 B	90.1 B	441 B	2,750	218 B	535	329 B
Manganese	SB	50-5,000	28.7	18.6	14.7	14.8	54.7	118	47.4	65.1	64.7
Mercury	0.1	0.001-0.2	ND	ND	ND	ND	0.01	0.03	0.02	ND	ND
Nickel	13 or SB	0.5-25	4 B	0.72 B	1.9 B	0.62 B	2.3 B	3.8 B	3.3 B	1.4 B	1.4 B
Potasium	SB	8,500-43,000	137 B	50.7 B	52.9 B	35.2 B	122 B	171 B	51.4 B	105 B	119 B
Selenium	2 or SB	0.1-3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	SB	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	SB	6,000-8,000	129 B	77.8 B	109 B	73.1 B	129 B	85.7 B	111 B	99 B	54.4 B
Thallium	SB	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	150 or SB	1-300	5.9 B	2.1 B	3.3 B	2.2 B	3.3 B	7.3	15.7	2.8 B	3.2 B
Zinc	20 or SB	9-50	**55.9**	12.4	**51.1**	17.5	8.2	18.6	37.9	5.9	6.5

4.1.3 Soil Sampling–Former UST

One (1) sample (SP-5) was collected from soils adjacent to the abandoned on-site UST located south of the existing facility building. Samples were collected continuously to a depth of 20 ft below surface grade (bsg) and each sample was screened with a photoionization detector (PID) for the presence of total volatile organic compounds. In accordance with the procedures outlined in the Voluntary Cleanup Work Plan, the sample exhibiting the highest PID reading was then submitted for laboratory analysis. Results of the PID screening indicated the presence of total volatile organic compounds in each of the sample intervals retrieved with detections ranging from 20.2 parts per million (ppm) (16 ft to 20 ft) to 525 ppm (0 ft to 4 ft). As a result, the 0 ft to 4 ft interval was submitted to the laboratory for analysis. Analytical results did not reveal the presence of any volatile organic compounds in the sample collected from the 0 to 4 ft interval; however, several semi-volatile and inorganic compounds were detected. A review of the results indicated that the semi-volatile organic compounds chrysene and benzo(a)pyrene were found above their respective TAGM standards at respective concentrations of 670 ug/kg and 460 ug/kg. The only detected inorganic compounds found to exceed their respective TAGM standards were Beryllium, Cadmium and Iron. A summary of the analytical results for sample SP-5 are provided in **Tables 1** and **2**. The analytical data sheets are provided in **Appendix A.**

4.1.4 Soil Sampling-Former Sanitary Leaching Pools and Suspected Drywell

One (1) soil sample was collected from each of the former septic system leaching pools (SP-6 and SP-7) and the suspected storm drain (SP-4) located south of the facility building. Soil samples were collected continuously within each structure to determine the extent of backfill materials and the vertical depth of potentially impacted soils. Continuous soil samples were collected from SP-6 and native soils were encountered at a depth of 18 ft bsg. As a result soil sample SP-6 was collected at an interval of 18 to 20 ft bsg. The secondary septic system leaching pool from which SP-7 was collected was found to be backfilled and abandoned in place. Continuous soil sampling results indicated that native subsurface soils were present at a depth of approximately 10 ft bsg and as a result soil sample SP-7 was collected from an interval of 10 to 12 ft bsg. Investigation of the suspected drywell located south of the facility building revealed that this former recharge structure was previously backfilled and abandoned in place. Results of continuous soil sampling encountered native soils beneath backfill material at a depth of approximately 18 ft bsg and as a result soil sample SP-4 was collected at an interval of 18 to 20 ft bsg.

Analytical results for samples collected from the former on-site septic system only detected two (2) volatile organic compounds which were found below their respective TAGM standards in soil sample SP-6 retrieved from the primary leaching pool. No volatile organic compounds were identified in soil sample SP-7 retrieved from the secondary leaching pool. In addition, analysis of the former septic system samples detected the presence of several semi-volatile and inorganic compounds in subsurface soils retrieved from each pool. However, none of the detected semi-volatile compounds and only two (2) of the inorganic compounds (cadmium and iron) were found to be above their respective TAGM levels. A summary of the analytical results for

samples SP-6 and SP-7 are provided in **Tables 1** and 2. The analytical data sheets are provided in **Appendix A.**

Analytical results of SP-4 collected from the suspected on-site drywell south of the facility building did not indicate the presence of any volatile organic compound; however, several semi-volatile organic compounds all of which were below there respective TAGM standards were detected. Inorganic analysis of SP-4 also revealed the presence of several metals, of which, only two (2) (chromium and iron) were found to be above each of their individual TAGM regulatory standards. A summary of the analytical results for sample SP-4 are provided in **Tables 1** and 2. The analytical data sheets are provided in **Appendix A.**

4.1.5 Groundwater Probe Installation and Groundwater Sampling

Due to the compounds detected in soil/sediment samples which exceeded their respective TAGM standards five (5) groundwater probes were installed to delineate groundwater quality underlying the subject site and to aid in the placement of monitoring wells scheduled as part of the site investigation. Three (3) probes (WP-1 through WP-3) were installed northwest, northeast and east of the facility building to provide adequate upgradient coverage of groundwater flowing onto the site. The remaining two (2) probe locations (WP-4 and WP-5) were installed south of the facility building and were placed in locations to characterize groundwater quality in the vicinity of potential source areas.

With the exception of Geoprobe points WP-2 and WP-3 all groundwater samples were analyzed for volatile organic compounds via EPA test method 8260, semi-volatile compounds via EPA test method 8270 and TCL metals via EPA method 6010. Due to poor sample recovery resulting from existing hydrogeologic conditions, the sample from WP-2 could only be analyzed for volatile organic compounds and no sample could be retrieved from WP-3. A summary of the Geoprobe groundwater sample results is provided in **Table 3**. The analytical data sheets are provided in **Appendix A.**

Analysis of the groundwater samples collected only detected the presence of volatile organic compounds in the two probe locations installed south of the facility building. The sample collected from WP-2 was found to contain acetone while the sample retrieved from WP-4 also detected the presence of acetone as well as cis-1,2-dichloroethene and tetrachloroethene of which only tetrachloroethene was found to exceed its respective TAGM standard. Several semi-volatile organic compounds were also detected, however these were only found in the sample retrieved from WP-4. All of the semi-volatile detections were found below their respective TAGM standards with the exception of benzo(b)flouranthene. All of the probe locations sampled detected the presence of several metals with 10 elements found above their respective TAGM standards and included antimony, arsenic beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese and sodium.

Table 3

Groundwater Sampling Results
Coral Graphics, 327 New South Road
Hicksville, New York

Analytical Compound	***TOG 1.1.1 Standard (ug/L)***	***Sample ID***						
Volatile Organic Compounds		WP-1	WP-2	WP-3	WP-4	WP-5	FB	TB
Acetone	50	ND	25	*	15	ND	ND	36
cis-1,2-Dichloroethene	5	ND	ND	*	2	ND	ND	**5.3**
Tetrachloroethene	5	ND	ND	*	***5.2***	ND	ND	ND
Semi-Volatile Organic Compounds								
Phenanthrene	50	ND	*	*	*2.1 J*	ND	ND	*
Floranthene	50	ND	*	*	*2.8 J*	ND	ND	*
Pyrene	50	ND	*	*	*2.0 J*	ND	ND	*
Bis(2-Ethylhexyl)phthalate	5	ND	*	*	*4.3 J*	ND	ND	*
Benzo(b)fluoranthene	0.002	ND	*	*	***1.1 J***	ND	ND	*
Metal Compounds								
Aluminum	NS	161,000	*	*	2,600	56,400	ND	*
Antimony	3	**12 B**	*	*	**5.5 B**	**9.1 B**	ND	*
Arsenic	25	**191**	*	*	5.6 B	**71.7 B**	ND	*
Barium	1,000	843	*	*	104 B	433	ND	*
Beryllium	3	**12.2**	*	*	0.38 B	**5.7**	ND	*
Cadmium	5	**5.9**	*	*	ND	2.5 B	ND	*
Calcium	NS	33,000	*	*	7,110	40,400	ND	*
Chromium	50	**1,140**	*	*	**463**	***1,240***	ND	*
Cobalt	NS	39.9 B	*	*	3.5 B	15.8 B	ND	*
Copper	200	**226**	*	*	34.3	154	ND	*
Iron	300	**436,000**	*	*	**22,500**	**258,000**	ND	*
Lead	25	**113**	*	*	10.3	**96.3**	ND	*
Magnesium	35,000	**123,000**	*	*	2,000 B	13,000	ND	*
Manganese	300	**1,330**	*	*	193	**652**	ND	*
Mercury	0.7	0.56	*	*	ND	0.65	ND	*
Nickel	NS	243	*	*	215	533	ND	*
Potassium	NS	7,720	*	*	2,150 B	4,350	ND	*
Selenium	10	ND	*	*	1 B	ND	ND	*
Silver	50	ND	*	*	ND	ND	ND	*
Sodium	20,000	**123,000**	*	*	8,470	16,400	ND	*
Thallium	0.5	ND	*	*	ND	ND	ND	*
Vanadium	NS	362	*	*	23.6 B	462	ND	*
Zinc	2,000	327	*	*	208	99	ND	*

Notes: * - Compound not sampled or analyzed for.
B – Compound found in blank.
J – Estimated value since reported detection greater than detection limit.
Bold – Compound exceeds groundwater standard.
Italic – Compound which exceeds groundwater standard also exceeds up gradient sample detection.

4.2 Phase II Sampling

4.2.1 Temporary Monitoring Well Installation

Based on the results obtained during Phase I of the investigation, three (3), two (2) inch temporary monitoring wells were installed to more accurately determine the concentration of inorganic compounds in groundwater underlying the site. Several inorganic compounds weredetected in Geoprobe groundwater samples collected and it was suspected that these levels may be due to elevated particulate levels present in these samples.

One (1) well (MW-1) was placed upgradient of the facility building to monitor groundwater quality entering the property boundaries. The remaining two temporary wells (MW-2 and MW-3) were installed downgradient of the facility building. Each of the temporary wells were sampled using low-flow methodology. Under this protocol, each well was purged with a 2-inch Grundfos Redi Flo-II pump at a rate of 200 to 500 milliliters per minute (ml/min) and drawdown was kept to within 0.3 ft. During purging the removed groundwater was monitored until pH, specific conductance, redox potential and dissolved oxygen stabilized to within acceptable ranges as outlined in the Voluntary Investigation Work Plan. In addition, purging continued until groundwater turbidity fell below 50 napholometric units (NTUs) to ensure that sufficient particulate matter had been removed from the sample.

4.2.2 Temporary Well Sampling Results

The results of the temporary monitoring well groundwater sampling are summarized in **Table 4**. The analytical data sheets are provided in **Appendix A**. A review of the results detected the presence of several inorganic compounds in all of the wells sampled. However, none of the parameters were found to be above their respective TAGM standard.

4.3 Supplemental Investigative Activities

4.3.1 Ground Penetrating Radar Survey

A remote sensing ground penetrating radar field survey was performed over the eastern portion of the property utilizing a GSSI model SIR-2 with a 400 MHz antenna ground penetrating radar (GPR) unit.

The GPR system consisted of a control unit, control cable and a transducer. The GPR control unit transmits a trigger pulse at a normal repetition rate of 50 KHz. The pulse is then sent to the transmitter electronics in the transducer (antenna) via the control cable where the trigger pulses are transformed into bipolar pulses with higher amplitudes. The transformed pulse will vary in shape and frequency according to the transducer used. The GSSI system is capable of transmitting electromagnetic energy into the subsurface of the earth in the frequency range of 16 MHz to 2000 MHz. In the subsurface, reflections of the pulse occur at boundaries where there is

Table 4

Groundwater Sampling Results
Coral Graphics, 327 New South Road
Hicksville, New York

Analytical Compound / Metal Compounds	*TOG 1.1.1 Standard (ug/L)*	*Sample ID*				
		MW-1 (NPV)	MW-2 (NPV)	MW-3 (NPV)	MW-4[1] (NPV)	TB
Aluminum	NS	135	92.7B	77.2B	157	ND
Antimony	3	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND
Barium	1,000	91.6B	38.2B	24.6B	94.8B	ND
Beryllium	3	0.11B	0.20B	0.19B	0.38B	ND
Cadmium	5	ND	ND	ND	ND	ND
Calcium	NS	12,800	5,280	6,280	13,100	ND
Chromium	50	13.7	2.4B	3.1B	13	ND
Cobalt	NS	29.6B	2.8B	1.1B	29B	ND
Copper	200	ND	ND	ND	ND	ND
Iron	300	110	150	55B	98.4	ND
Lead	25	ND	ND	ND	ND	ND
Magnesium	35,000	3,270B	1,600B	1,670B	3,390B	ND
Manganese	300	115	30.7	24.7	115	ND
Mercury	0.7	ND	ND	ND	ND	ND
Nickel	NS	10.6B	ND	3.0B	10.2B	ND
Potassium	NS	1,400B	1,490B	2,040B	1,460B	ND
Selenium	10	2.9B	4.9B	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND
Sodium	20,000	11,100	8,960	15,900	11,600	ND
Thallium	0.5	ND	ND	ND	ND	ND
Vanadium	NS	ND	1.5B	ND	ND	ND
Zinc	2,000	18.3B	26.7	48.1	14.6B	ND

Notes: 1 – MW-4 is a duplicate on MW-1.
* - Compound not sampled or analyzed for.
B – Compound found in blank.
Bold – Compound exceeds groundwater standard.
Italic – Compound which exceeds groundwater standard also exceeds up gradient sample detection.

a dielectric contrast (void, steel, soil type). The reflected portion of the signal travels back to the antenna and the control unit and is subsequently shown on the display of the computers color video monitor for interpolation.

A qualified technician specified a coordinate system on the planimetric surface to locate any subsurface dielectric anomalies on the premises. The operator used known knowledge of the subsurface soil composition to calibrate the SIR-2 system to site specific conditions. Factor settings such as range, gain, number of gain points, and scans per unit, are modified to yield the most accurate data to describe the subsurface conditions.

Upon finding a dielectric anomaly a more specific coordinate system was designed over the area to determine it's size, shape and orientation. The data collected during the survey was reviewed by the operator and compared against past experience, technical judgment and prior site knowledge to classify the anomalies.

The GPR survey was utilized to determine the presence and location of any subsurface overflow drywells or leaching pools.

4.3.2 Ground Penetrating Radar Survey Results

Results of the survey located four anomalies (suspected leaching pools) within the eastern boundary of the subject site. The location of these anomalies is provided in **Figure 1**. In addition, the suspected location of the cesspool originally sampled as SP-6 and SP-7 was found to be incorrect as a result of a review of as built drawings uncovered during a record search on the subject property. As a result, sampling was conducted at the confirmed location of this sanitary system; these samples are identified as CP-1 and CP-1-O.

4.3.3 Supplemental Leaching Pool and Cesspool Sampling and Results

Based on the results of the GPR survey, sampling of each additional leaching pool located on the subject property was conducted to determine if bottom sediments had been impacted by previous discharges to these structures. The results of the sampling is summarized in **Table 5**. The analytical data sheets are provided in **Appendix A**.

Review of the analytical results indicates that leaching pools LP-4 and LP-8 were impacted with several semi-volatile organic compounds found above NYSDEC TAGM standards. In addition, cesspool CP-1 and LP-4 were found to contain several metals above their respective NYSDEC TAGM standards.

4.4 Interim Remedial Measures

4.4.1 On-site Drywells and Cesspool System

An interim remedial action was initiated for the removal of contaminated sediments from the on-site drywells exhibiting concentrations above NYSDEC TAGM standards and the former cesspool system.

The interim remedial action directed to remove liquids and sediments from impacted on-site drywells was conducted on December 12 and 30, 2003 at the Coral Graphic 327 New South Road facility. The activities conducted were in accordance with the recommendations of the NCDH in their letter dated July 18, 2003 and accepted by the NYSDEC and USEPA. The drywells targeted for remediation during this phase consisted of CP-1, SP-1/LP-7, SP-2/LP-9, lP-4 and LP-8.

Table 5
Leaching Pool Soil Sampling Results (Volatiles and Semi-Volatiles)
Coral Graphics, 327 New South Road
Hicksville, New York

Analytical Compound	**TAGM Standard (mg/KG)**	**Sample ID**								
Volatile Organic Compounds		CP-1	CP-1-O	LP-4	LP-5	LP-6	LP-8	DUP-1	Field Blank	Trip Blank
Acetone	200	ND	ND	ND	ND	ND	28	ND	14	ND
Methylene Chloride	100	ND	ND	ND	ND	ND	ND	3.1 J	4.3 J	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,500	ND	ND	ND	ND	ND	7.7 J	ND	ND	ND
Semi-Volatile Organic Compounds										
Phenanthrene	50,000	ND	ND	420	ND	ND	520 JD	ND	ND	NA
Carbazole	NS	ND	ND	43 J	ND	ND	ND	ND	ND	NA
Floranthene	50,000	ND	ND	1,100	ND	ND	4,100 D	ND	ND	NA
Pyrene	50,000	ND	ND	900	ND	ND	2,400 JD	ND	ND	NA
Butylbenzylphthalate	50,000	ND	ND	ND	ND	ND	380 JD	ND	ND	NA
Benzo(a)anthracene	224	ND	ND	**270 J**	ND	ND	**1,100 JD**	ND	ND	NA
Chrysene	400	ND	ND	**530**	ND	ND	**3,000 JD**	ND	ND	NA
Bis(2-Ethylhexyl)phthalate	50,000	ND	46	38 JB	42 JB	ND	13,000 BD	ND	1.5	NA
Di-n-octyl phthalate	50,000	ND	ND	ND	ND	ND	ND	ND	ND	NA
Benzo(b)fluoranthene	1,100	ND	ND	620	ND	ND	**5,100 D**	ND	ND	NA
Benzo(k)fluoranthene	1,100	ND	ND	200 J	ND	ND	**1,400 JD**	ND	ND	NA
Benzo(a)pyrene	61	ND	ND	**360**	ND	ND	**680 JD**	ND	ND	NA
Indeno(1,2,3-cd)pyrene	320	ND	ND	310 J	ND	ND	**1,700 JD**	ND	ND	NA

Table 5 con't
Leaching Pool Soil Sampling Results (Metals)
Coral Graphics, 327 New South Road
Hicksville, New York

Analytical Compound / Metals	TAGM Standard (mg/KG)	Eastern USA Background (mg/KG)	Sample ID								
			CP-1	CP-1-O	LP-4	LP-5	LP-6	LP-8	DUP-1	Field Blank	Trip Blank
Aluminum	SB	33,000	10,800	4,500	9,780	860	777	1,390	4,590	ND	NA
Antimony	SB	N/A	22.7	ND	26.8	ND	0.28 J	0.90 J	ND	ND	NA
Arsenic	7.5 or SB	3-12	**323**	2.6	**494**	0.71 J	0.28 J	2.0	3.6	ND	NA
Barium	300 or SB	15-600	158	11.3	115	5.1 J	5.3 J	89.5	13 J	ND	NA
Beryllium	0.16 or SB	0-1.7	0.53 J	0.22	0.39 J	0.10 J	0.09 J	0.06 J	0.17 J	ND	NA
Cadmium	0.1 or SB	0.1 or 1.0	**7.2**	0.47	**10.5**	ND	0.08 J	0.56 J	0.14 J	ND	NA
Calcium	SB	130-35,000	13,700	460	15,600	383	409 J	2,430	8,250	ND	NA
Chromium	10 or SB	1.5-40	**58.4**	5.5	71.3	3.9	2.0	20.6	5.1	ND	NA
Cobalt	30 or SB	2.5-60	**206**	2.6	**283**	0.69 J	0.43 J	1.4 J	2.5 J	ND	NA
Copper	25 or SB	0.1-50	**4,216.30**	6	**6,530**	3.9	24.7	27.2	8.0	ND	NA
Iron	2,000 or SB	2,000-550,000	211,000	6,160	280,000	2,240	1,480	9,090	5,700	ND	NA
Lead	SB	200-500	**831**	5.6	**908**	2.0	17.4	59.9	13.2	ND	NA
Magnesium	SB	100-5,000	4,360	634	3,300	238 J	180 J	648 J	4,900	ND	NA
Manganese	SB	50-5,000	468	95.1	352	33.2	11	59.4	110	ND	NA
Mercury	0.1	0.001-0.2	0.04	0.03	ND	ND	0.02	0.02	0.04	ND	NA
Nickel	13 or SB	0.5-25	**28.8**	3.5	46.1	1.8 J	1.4 J	9.6	4.7	ND	NA
Potasium	SB	8,500-43,000	3,050	400	3,370	136 J	99.6 J	250 J	229 J	ND	NA
Selenium	2 or SB	0.1-3.9	2.9	0.82	ND	0.65	0.40 J	1.1	0.91	ND	NA
Silver	SB	N/A	2.3	0.40	ND	0.48 J	ND	0.84 J	ND	ND	NA
Sodium	SB	6,000-8,000	2,440	172	4,780	161 J	131 J	253 J	147 J	ND	NA
Thallium	SB	N/A	5.2	ND	4.4	ND	ND	ND	ND	ND	NA
Vanadium	150 or SB	1-300	17	8.2	ND	2.7 J	2.2 J	7.2 J	10.1	ND	NA
Zinc	20 or SB	9-50	**9,700**	11.3	**16,100**	16.9	14.1	**132**	42.6	ND	NA

Interim remedial activities began with the sampling of leaching pool liquids by Environmental Services, Inc. who was contracted to conduct the remediation of the leaching pools under the supervision of NP&V. Liquids were only encountered in leaching pools SP-1/LP-7, SP-2/LP-9, LP-4 and LP-8 and results of the sample analysis determined that all of the liquids could be disposed of at the Bergen Point Sewage Treatment Facility in West Babylon, New York. Liquids from each of the leaching pools were removed through use of a pump/tanker truck. A total of 3,000 gallons of liquid were removed from the four leaching pools.

Following removal of leaching pool liquids, sludge residue and underlying soils was removed from each of the pools through use of a Guzzler® vacuum truck. All of the sludge wastes were removed from each of the drywells and placed in a 15 yard roll-off containers. Approximately 13.5 cubic yards of material was removed from each of the drywells resulting in a total of approximately 67 cubic yards of material being removed from the site for disposal.

Following remediation activities and sampling, each leaching pool was backfilled to replace removed sediments. This was done prior to receipt of endpoint sample results as a precautionary measure due to concerns of the potential that the leaching pools could collapse under the weight of heavy equipment and vehicles which continually traverse the project site.

Endpoint sample results following remediation of the selected leaching pools revealed that no volatile organic, semi-volatile organic or metal compounds were detected above their respective NYSDEC TAGM Standards in any of the remaining soils within each of the leaching pools. The only exception consisted of Benzo(a)pyrene which was detected in SP-1 at 280 ug/kg and exceeds the 61 ug/kg TAGM standard for this compound. A summary of the endpoint sampling results for the remediated leaching pools is provided in **Tables 6** and **7**. The analytical data sheets are provided in **Appendix A**.

4.4.2 Abandoned Fuel Oil Underground Storage Tank

During the installation of MW-3 on November 17, 2002, the abandoned fuel oil UST south of the warehouse building was inadvertently ruptured. Inspection of the tank following the incident revealed that it had been partially filled with concrete but not all of the product had been removed. As a result the NYSDEC issued a spill number 02-25285 for the incident and requested that the tank be excavated, the remaining fuel oil pumped off and the tank removed.

Tank removal activities were conducted from May 29 to June 4, 2003. The subject tank was uncovered and all remaining fuel oil was removed and transported to an approved facility for disposal. Following removal of the residual fuel oil, the tank along with the encased concrete was removed and transported off-site for disposal. Inspection of the excavation did not indicate that any product had been release to the sub surface soils and a soil sample was collected and analyzed for the presence of volatile and semi-volatile organic compounds. Review of these results did not detect the presence of any of the analyzed constituents and the excavation was backfilled with clean fill and paved.

Table 6
Leaching Pool
Soil Sampling Results (Volatiles and Semi-Volatiles) Post Remediation
Coral Graphics, 327 New South Road
Hicksville, New York

Analytical Compound	TAGM Standard (ug/kg)	Sample ID				
		CP-1	SP-1	SP-2	LP-4	LP-8
Volatile Organic Compounds		No Volatile Organic Compounds Detected				
Semi-Volatile Organic Compounds						
Phenanthrene	50,000	ND	190	ND	ND	ND
Floranthene	50,000	ND	480	ND	ND	61
Pyrene	50,000	ND	430	ND	ND	47
Benzo(a)anthracene	224	ND	190	ND	ND	ND
Chrysene	400	ND	300	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	50,000	35	81	ND	ND	73
Benzo(b)fluoranthene	1,100	ND	380	ND	ND	38
Benzo(k)fluoranthene	1,100	ND	210	ND	ND	ND
Benzo(a)pyrene	61	ND	**280**	ND	ND	ND
Indeno(1,2,3-cd)pyrene	320	ND	270	ND	ND	ND

Table 7
Leaching Pool
Soil Sampling Results (Metals) Post Remediation
Coral Graphics, 327 New South Road
Hicksville, New York

Analytical Compound	TAGM Standard (Mg/KG)	Eastern USA Background (mg/KG)	Sample ID				
Metals			CP-1	SP-1	SP-2	LP-4	LP-8
Aluminum	SB	33,000	1,010	908	405	443	90.8
Antimony	SB	N/A	ND	ND	ND	ND	ND
Arsenic	7.5 or SB	3-12	0.61	ND	ND	ND	ND
Barium	300 or SB	15-600	2.8	9.5	1.5	3	1.2
Beryllium	0.16 or SB	0-1.7	0.07	0.15	0.06	0.07	0.04
Cadmium	0.1 or SB	0.1 or 1.0	ND	0.25	ND	ND	ND
Calcium	SB	130-35,000	304	312	277	277	426
Chromium	10 or SB	1.5-40	4.3	2.5	1.4	1.7	2.2
Cobalt	30 or SB	2.5-60	ND	0.63	0.08	0.21	ND
Copper	25 or SB	0.1-50	3.2	2.5	4.1	2.4	1.7
Iron	2,000 or SB	2,000-550,000	2,760	2,700	918	773	728
Lead	SB	200-500	0.56	3.8	3.2	1.2	1.7
Magnesium	SB	100-5,000	280	235	112	128	86.2
Manganese	SB	50-5,000	14.2	22.2	3.8	33.2	3.4
Mercury	0.1	0.001-0.2	ND	ND	0.01	ND	ND
Nickel	13 or SB	0.5-25	0.97	1	0.65	0.69	0.69
Potasium	SB	8,500-43,000	154	165	43.2	47.8	36.7
Selenium	2 or SB	0.1-3.9	0.86	ND	0.39	ND	ND
Silver	SB	N/A	1.1	ND	ND	ND	ND
Sodium	SB	6,000-8,000	105	86.4	75.3	82.3	78.8
Thalium	SB	N/A	ND	ND	ND	ND	ND
Vanadium	150 or SB	1-300	3.9	3.6	1.1	1	0.71
Zinc	20 or SB	9-50	5.1	16.5	9.2	4.7	5.2

4.5 Data Usability Summary Report (DUSR)

The DUSR is divided into six (6) individual reports for each collection set generated during the investigation. The data validation was performed according to the guidelines described in the NYSDEC, Division of Remediation, Guidance for Development of DUSRs. In addition, the data has been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and accepted except those analytes which have been rejected "R" (unreliable/unusable). Due to various quality control problems some analytes may have been qualified with a "J" (estimated), 'N" (presumtive evidence for the presence of the for the presence of the material), "U" (non-detect), or 'JN" (presumptive evidence for the presence of the material an estimated value) flag. All actions are detailed within each DUSR report.

Persons using the data generated as a result of this investigation should be aware that no result is guaranteed to be accurate even if it has passed all quality control tests. The main purpose of the DUSR is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for quality and data use.

The entire data assessment includes eight (8) water samples, twenty-two (22) soil samples, six (6) field blanks and six (6) trip blanks. All of the samples were shipped to Chemtech Laboratories for analysis and received in good condition. The samples were analyzed for Volatile Organic Analytes (EPA Method 8260), Semi-Volatile Organic Analytes (EPA Method 8270 and TAL Metals (EPA Method 6010).

All of the data reviewed was determined to be acceptable with noted data qualifiers where applicable.

The DUSRs generated for this report have been provided as **Volume II**.

5.0 CONCLUSIONS AND REMEDIATION RECOMMENDATIONS

The Voluntary Cleanup Program (VCP) Investigation conducted at the subject site consisted of a cooperative approach between the New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH) and Coral Graphics, Inc. (Coral Graphics) to investigate and/or remediate the subject site and return the property to productive use.

The purpose of the Voluntary Cleanup Investigation was to determine what impacts former on-site activities have had upon the environmental quality of the subject site, specifically related to previous Phase I and Phase II investigations of the former septic system and former underground storage tank (UST) facilities.

The overall objective of the VCP is to remediate the site (if necessary) to a level that is protective of public health and the environment consistent with the proposed future use of the property. Upon successful completion of the of the remediation (if required), the NYSDEC will provide a release for remedial liability for the work conducted and the contaminants addressed. The following presents an evaluation of the results of this investigation.

1. The results of sediment sampling from leaching pools CP-1, SP-1/LP-7, SP-2/LP-9, SP-4, SP-6, LP-4 and LP-8 revealed the presence of several semi-volatile organic compounds and/or metals above their respective NYSDEC TAGM standards. Soil samples collected from the other leaching structures observed at the site or revealed by use of GPR were not found to have any analyzed compounds above their respective TAGM standards.

2. Groundwater probe samples collected at the site detected several metals above their regulatory standards. These detections may be the result of sample turbidity and as a result, monitoring wells were installed to ensure the collection of non-turbid samples. Sampling of the temporary monitoring wells installed at the site using low flow methodology did not detect the presence of any metal compounds above their respective TOG 1.1.1 standards. The samples were not analyzed volatile and semi-volatile compounds since there was no appreciable groundwater contamination related to these compounds detected in the earlier groundwater probe samples.

3. A ground penetrating radar survey conducted at the site detected four (4) anomalies which were later revealed to be two (2) additional leaching pools and two (2) former cesspools which serviced the property.

4. Under an interim remediation program leaching pools CP-1, SP-1/LP-7, SP-2/LP-9, LP-4 and LP-8 were remediated and endpoint sample results did not detect the presence of any compounds above their respective TAGM standards except for Benzo(a)pyrene in SP-1 at 280 ug/kg.

5. An abandoned fuel oil UST, which was previously believed to have been removed, was encountered on the southeast side of the facility building. The UST was removed from the site and endpoint sample results collected from the excavation did not reveal the presence of any semi-volatile compounds above their respective regulatory standards.

Based on the sample results obtained during the investigation and the interim remedial measures conducted at the site no further investigative or remedial activities are recommended. While it is recognized that the sediment sample retrieved from SP-1 detected the presence of Benzo(a)Pyrene above its TAGM standard, it is felt that further remediation of the leaching pool is not warranted. All other constituents were less than applicable guidelines, Benzo(a)pyrene only marginally exceeds the guidance value and no groundwater impacts were encountered at the site. SP-1 was immediately backfilled with clean material following remediation due to safety concerns at the site. All of the other previously detected compounds identified during initial sampling of the leaching structure have been removed in compliance with appropriate regulatory standards and groundwater samples collected from the property have not detected the presence of Benzo(a)Pyrene. In addition, the detections of chromium and cadmium found respectively in samples SP-4 and SP-6 marginally exceed the TAGM standards established for these compounds and are not anticipated to present a significant threat to the public or environmental resources.

Enigk, Andrew

From: Renata E Ockerby [reo02@health.state.ny.us]
Sent: Thursday, July 29, 2010 8:08 AM
To: Enigk, Andrew
Cc: Brussel, John; aabarraz@gw.dec.state.ny.us; Fay S. Navratil
Subject: Bayer Off-Site (Coral Graphics V00416) Information, #130004, Hicksville, Nassau County

All,

I have had a chance to review the site file and to speak with the DOH PM regarding the Coral Graphics site located at 327 New South Road. This site (Coral Graphics warehouse) is the *closest* to the Bayer site.

Since there are TWO Coral Graphics Sites (both Volunteers), I have outlined some information below:

Coral Graphics V00416
327 New South Rd, Hicksville, NY
Warehouse Storage
Soil contamination in the dry-wells and former leaching pools has been removed, low-level groundwater contamination NOT attributed to this site.
No mention of soil vapor, indoor air samples in the site file, nor does the DOH PM recall such samples being collected.

UIS Health Assessment (portion)
"Indoor air sampling of the on-site facility does not indicate a soil vapor intrusion issue at this time."
*This sentence in the UIS Health Assessment for this site is not accurate, and may have been incorrectly copied from the H.A. for the **other** Coral Graphics (Site V00383)*
Referenced in DEC/DOH email dated 12/27/2007

Coral Graphics V00383
840 Broadway, Hicksville, NY
Headquarters/Factory

On-site soil contamination has been remediated. On and off-site groundwater (mostly tetrachloroethene) has been remediated via an air sparge/soil vapor extraction (AS/SVE) system and ISCO. The SVE portion of the system is in operation, to help prevent the migration of on-site soil vapors to other properties.

UIS Health Assessment (portion)
Indoor air sampling of the on-site facility does not indicate a soil vapor intrusion issue at this time. However, performance monitoring of the proposed AS/SVE is necessary to assure that the potential for future exposure are reduced."

Should you have additional questions, please let me know.

Renata

or use it or any attachments. Please notify the sender immediately by reply e-mail and delete this from your system. Thank you for your cooperation.

Appendix B

Background Information Records

ARCADIS

American Compressed Gases

Current Occupant and Owner
46-242-17 & 46-242-18
309 New South Road

Source: NYSDEC Petroleum Bulk Storage Database

RUCO PLASTICS (Continued) S102137210

Water Affected: Not reported
Spill Source: 12
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: 08/28/87
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 08/28/87
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/21/87
Date Spill Entered In Computer Data File: Not reported
Update Date: 02/24/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: / / : REFERED TO A. CAPP.
Remark: ODOR

A18 **AMERICAN COMPRESSED GASES, INC.** UST U003845080
SW **309 NEW SOUTH RD** N/A
< 1/8 **HICKSVILLE, NY 11801**
0.023 mi.
121 ft. **Site 18 of 18 in cluster A**

Relative: UST:
Lower Tank Type: OUTDOOR UG HOR STEEL
Tank Size: 3000
Actual: Tank Contents: EMPTY
130 ft.

ARCADIS

Sid Harvey

Previous Occupant
46-504-138
317 New South Road

Sources: NYSDEC Spills List, NY Leaking Tanks Database, NYSDEC Spill Incidents Database

UNK (Continued) **S104784235**

Remark: 6-55 GAL DRUMS SEALED.MARKED LACQUER THINNER NONE WERE LEAKING MAY BE LIRR NOW BUT NOT CONFIRMED YET. REFERRED TO SOLID HAZ WASTE

C24
SSW
< 1/8
0.041 mi.
218 ft.

SID HARVEY
317 NEW SOUTH ROAD
HICKSVILLE, NY

LTANKS S102138537
NY Spills N/A
NY Hist Spills
HIST LTANKS

Site 2 of 5 in cluster C

Relative:
Lower

Actual:
129 ft.

LTANKS:

Site ID:	271616
Spill No:	9414903
Spill Date:	02/13/95
Spill Cause:	Tank Overfill
Spill Source:	Tank Truck
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	01/23/04
Facility Addr2:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Standard:	True
SWIS:	3000
Investigator:	NJACAMPO
Referred To:	Not reported
Reported to Dept:	02/13/95
CID:	03
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	02/13/95
Spill Record Last Update:	01/27/04
Spiller Name:	Not reported
Spiller Company:	VARIETY PETROL
Spiller Address:	40 GRANNY ROAD
Spiller City,St,Zip:	FARMINGVILLE, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	1
DER Facility ID:	221050
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "ACAMPORA"
Remarks:	DRIVER MAKING DELIVERY SPILLED, APPLIED SPEEDI DRI THERE IS A SHEEN IN THE STORM DRAIN.

Material:

Site ID:	271616
Operable Unit ID:	1008356
Operable Unit:	01
Material ID:	373626
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum

SID HARVEY (Continued) **S102138537**

Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Spills:

Site ID:	271615
Facility Addr2:	Not reported
Facility ID:	9007279
Spill Number:	9007279
Facility Type:	ER
SWIS:	3000
Investigator:	HOFMANN
Referred To:	Not reported
Spill Date:	10/02/90
Reported to Dept:	10/03/90
CID:	03
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Citizen
Cleanup Ceased:	10/09/90
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	10/09/90
Remediation Phase:	0
Date Entered In Computer:	10/04/90
Spill Record Last Update:	10/10/90
Spiller Name:	Not reported
Spiller Company:	SID HARVEY
Spiller Address:	317 NEW SOUTH ROAD
Spiller City,St,Zip:	HICKSVILLE, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	1
DER Facility ID:	221050

Material:

Site ID:	271615

SID HARVEY (Continued) **S102138537**

Operable Unit ID: 947801
Operable Unit: 01
Material ID: 434700
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 2
Units: Gallons
Recovered: No
Resource Affected: Sewer
Oxygenate: False

DEC Memo: Not reported
Remarks: CALLER WAS MAKING A DELIVERY TO LOCAL BUSINESS & WITNESSED AN EMPLOYEE IN BLUE SHOP COAT DUMPING INTO S.D

NY Hist Spills:
Region of Spill: 1
Spill Number: 9007279
Investigator: HOFMANN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 10/02/1990 07:20
Reported to Dept Date/Time: 10/03/90 09:57
SWIS: 28
Spiller Name: SID HARVEY
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: 317 NEW SOUTH ROAD
Spiller City,St,Zip: HICKSVILLE, NY
Spill Cause: Deliberate
Reported to Dept: In Sewer
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Citizen
PBS Number: Not reported
Cleanup Ceased: 10/09/90
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 10/09/90
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 10/04/90
Date Spill Entered In Computer Data File: Not reported
Update Date: 10/10/90
Is Updated: False

SID HARVEY (Continued) **S102138537**

Tank:
- PBS Number: Not reported
- Tank Number: Not reported
- Tank Size: Not reported
- Test Method: Not reported
- Leak Rate Failed Tank: Not reported
- Gross Leak Rate: Not reported

Material:
- Material Class Type: Petroleum
- Quantity Spilled: 2
- Unkonwn Quantity Spilled: False
- Units: Gallons
- Quantity Recovered: 0
- Unkonwn Quantity Recovered: False
- Material: UNKNOWN PETROLEUM
- Class Type: UNKNOWN PETROLEUM
- Times Material Entry In File: 16414
- CAS Number: Not reported
- Last Date: 19940929
- DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: POSS CLEANING SOLVEN.
- Remark: CALLER WAS MAKING A DELIVERY TO LOCAL BUSINESS WITNESSED AN EMPLOYEE IN BLUE SHOP COAT DUMPING INTO S.D

HIST LTANKS:
- Region of Spill: 1
- Spill Number: 9414903
- Spill Date: 02/13/1995
- Spill Time: 10:00
- Spill Cause: Tank Overfill
- Resource Affectd: On Land
- Water Affected: Not reported
- Spill Source: Tank Truck
- Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
- Spill Closed Dt: / /
- Cleanup Ceased: / /
- Cleanup Meets Standard: False
- Investigator: ACAMPORA
- Caller Name: Not reported
- Caller Agency: Not reported
- Caller Phone: Not reported
- Caller Extension: Not reported
- Notifier Name: Not reported
- Notifier Agency: Not reported
- Notifier Phone: Not reported
- Notifier Extension: Not reported
- Reported to Department Date: 02/13/95
- Reported to Department Time: 11:00
- SWIS: 28
- Spiller Contact: Not reported
- Spiller Phone: Not reported
- Spiller Extention: Not reported
- Spiller Name: VARIETY PETROL
- Spiller Address: 40 GRANNY ROAD
- Spiller City,St,Zip: FARMINGVILLE

SID HARVEY (Continued) **S102138537**

Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Fire Department
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 02/13/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 02/14/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: DRIVER MAKING DELIVERY SPILLED, APPLIED SPEEDI DRI THERE IS A SHEEN IN THE STORM DRAIN.

C25 **CONSTRUCTION SITE** **VCP S104905165**
SSW **327 NEW SOUTH ROAD** **NY Spills N/A**
< 1/8 **HICKSVILLE, NY**
0.062 mi.
328 ft. **Site 3 of 5 in cluster C**

Relative:
Lower

Actual:
128 ft.

VCP:
Program Type: VCP
Site Code: 56996
HW Code: V00416
Site Class: A
SWIS: 3024
Region: 1
Town: Oyster Bay
Acres: Not reported
Date Record Added: 11/30/2000 4:06:00 PM

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 9007279

Spill Date/Time

Spill Date: 10/02/1990 **Spill Time:** 07:20:00 AM
Call Received Date: 10/03/1990 **Call Received Time:** 09:57:00 AM

Location

Spill Name: SID HARVEY
Address: 317 NEW SOUTH ROAD
City: HICKSVILLE **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
UNKNOWN PETROLEUM	2.00 Gal.	Sewer

Cause: Deliberate
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 10/09/1990

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Back to Search Results

Refine Current Search

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 9414903

Spill Date/Time

Spill Date: 02/13/1995 **Spill Time:** 10:00:00 AM
Call Received Date: 02/13/1995 **Call Received Time:** 11:00:00 AM

Location

Spill Name: VARIETY PETROL (P&G FUEL)
Address: 317 NEW SOUTH ROAD
City: HICKSVILLE **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 Fuel Oil	20.00 Gal.	Soil

Cause: Tank Overfill
Source: Tank Truck
Waterbody:

Record Close

Date Spill Closed: 01/23/2004

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Back to Search Results

Refine Current Search

UNK

Previous Occupant
46-504-138
317 New South Road

Source: NYDEC Spills List and
NYSDEC Spill Incidents Database

UNKNOWN (Continued) **S108058637**

Referred To:	Not reported
Spill Date:	07/18/06
Reported to Dept:	07/18/06
CID:	03
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	01/02/07
Remediation Phase:	0
Date Entered In Computer:	07/19/06
Spill Record Last Update:	01/03/07
Spiller Name:	BILLY STUBER
Spiller Company:	LIPA
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	001
Contact Name:	BILLY STUBER
Contact Phone:	(917) 578-0160
DEC Region:	1
DER Facility ID:	317300

Material:

Site ID:	367293
Operable Unit ID:	1125210
Operable Unit:	01
Material ID:	2114732
Material Code:	0020A
Material Name:	TRANSFORMER OIL
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

DEC Memo: REMOVED 1 DRUM CONTAMINATED SOIL/DEBRIS
Remarks: SPILL OCCURRED ON PAVEMENT ONLY: CLEANUP HAS NOT BEEN STARTED: TRANSFORMER FAILED

C23 **UNK** **NY Spills S104784235**
SSW **317 NEW SOUTH ROAD** **NY Hist Spills N/A**
< 1/8 **HICKSVILLE, NY**
0.041 mi.
218 ft. **Site 1 of 5 in cluster C**

Relative:
Lower

Actual:
129 ft.

NY Spills:

Site ID:	271614
Facility Addr2:	Not reported
Facility ID:	8904423

UNK (Continued) **S104784235**

Spill Number:	8904423
Facility Type:	ER
SWIS:	3024
Investigator:	UNASSIGNED
Referred To:	Not reported
Spill Date:	08/02/89
Reported to Dept:	08/03/89
CID:	03
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	08/03/89
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	08/03/89
Remediation Phase:	0
Date Entered In Computer:	08/04/89
Spill Record Last Update:	03/23/06
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	***UPDATE***, ZZ
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	1
DER Facility ID:	289573

Material:

Site ID:	271614
Operable Unit ID:	932061
Operable Unit:	01
Material ID:	448476
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

DEC Memo: Prior to Sept, 2004 data translation this spill Lead DEC Field was "NONE FD" FILE HAS BEEN DESTROYED ACCORDING TO STATE ARCHIVE AND RECORD ADMINISTRATIVE RETENTION/DISPOSAL PROCEDURES

Remarks: 6-55 GAL DRUMS SEALED.MARKED LACQUER THINNER "NONE WERE LEAKING" MAY BE LIRR NOW BUT NOT CONFIRMED YET. REFERRED TO SOLID & HAZ WASTE

NY Hist Spills:

Region of Spill:	1
Spill Number:	8904423
Investigator:	NONE FD

S104784235

UNK (Continued)

Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/02/1989 16:00
Reported to Dept Date/Time: 08/03/89 10:30
SWIS: 28
Spiller Name: UNK
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Deliberate
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Local Agency
PBS Number: Not reported
Cleanup Ceased: 08/03/89
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 08/03/89
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/04/89
Date Spill Entered In Computer Data File: Not reported
Update Date: 05/19/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 8904423

Spill Date/Time

Spill Date: 08/02/1989 **Spill Time:** 04:00:00 PM
Call Received Date: 08/03/1989 **Call Received Time:** 10:30:00 AM

Location

Spill Name: UNKNOWN
Address: 317 NEW SOUTH ROAD
City: HICKSVILLE **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
UNKNOWN PETROLEUM	UNKNOWN	Soil

Cause: Deliberate
Source: Unknown
Waterbody:

Record Close

Date Spill Closed: 08/03/1989

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Back to Search Results

Refine Current Search

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 9311104

Spill Date/Time

Spill Date: 12/13/1993 **Spill Time:** 12:00:00 PM
Call Received Date: 12/13/1993 **Call Received Time:** 08:59:00 AM

Location

Spill Name: UNK
Address: NEW SOUTH ROAD
City: HICKSVILLE **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
UNKNOWN PETROLEUM	UNKNOWN	Air

Cause: Unknown
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 12/15/1993

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Back to Search Results

Refine Current Search

ARCADIS

Hicksville Department of Public Works

Previous Occupant
New South Road and Morris Street

Source: USEPA Manifest List

30
South
< 1/8
0.112 mi.
592 ft.

HICKSVILLE DEPT OF PUBLIC WORKS
NEW SOUTH RD & MORRIS ST
HICKSVILLE, NY 11801

FINDS 1000272870
MANIFEST NYD982789737
RCRA-NonGen

Relative:
Lower

Actual:
127 ft.

FINDS:
Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD982789737
Facility Name:	OYSTER BAY TOWN DEPT OF PUBLIC WORKS
Facility Address:	NEW SOUTH RD & MORRIS ST
Facility City:	HICKSVILLE
Facility Address 2:	Not reported
Country:	USA
Mailing Name:	OYSTER BAY TOWN DEPT OF PUBLIC WORKS
Mailing Contact:	OYSTER BAY TOWN DEPT OF PUBLIC WORKS
Mailing Address:	150 MILLER PLACE
Mailing Address 2:	Not reported
Mailing City:	SYOSSET
Mailing State:	NY
Mailing Zip:	11791
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	516-921-7347

Document ID:	NYA8317089
Manifest Status:	Completed copy
Trans1 State ID:	MK8837
Trans2 State ID:	Not reported
Generator Ship Date:	891013
Trans1 Recv Date:	891013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891016
Part A Recv Date:	891024
Part B Recv Date:	891023
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NYD006801245
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00335
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89
Manifest Tracking Num:	Not reported

HICKSVILLE DEPT OF PUBLIC WORKS (Continued) **1000272870**

Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB2112885
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NY23561B
Trans2 State ID:	AH0139815
Generator Ship Date:	900329
Trans1 Recv Date:	900329
Trans2 Recv Date:	900329
TSD Site Recv Date:	900330
Part A Recv Date:	900613
Part B Recv Date:	900615
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NYD000691949
Trans2 EPA ID:	PAD085690592
TSDF ID:	OHD980700942
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00935
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	017
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB2110788

HICKSVILLE DEPT OF PUBLIC WORKS (Continued) **1000272870**

Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYJA113
Trans2 State ID:	Not reported
Generator Ship Date:	900313
Trans1 Recv Date:	900313
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900314
Part A Recv Date:	900614
Part B Recv Date:	900413
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980700942
Waste Code:	F003 - UNKNOWN
Quantity:	00245
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	03630
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	066
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB5290758
Manifest Status:	Completed copy
Trans1 State ID:	N23240
Trans2 State ID:	N23240
Generator Ship Date:	920716
Trans1 Recv Date:	920716
Trans2 Recv Date:	920716
TSD Site Recv Date:	920717

HICKSVILLE DEPT OF PUBLIC WORKS (Continued) 1000272870

Part A Recv Date:	Not reported
Part B Recv Date:	920729
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NYD980592570
Trans2 EPA ID:	NYD980592570
TSDF ID:	NYD082785429
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	01563
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	120
Year:	92
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB2109645
Manifest Status:	Completed copy
Trans1 State ID:	GX6293NY
Trans2 State ID:	Not reported
Generator Ship Date:	900223
Trans1 Recv Date:	900223
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900223
Part A Recv Date:	900308
Part B Recv Date:	900315
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NYD000691949
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000691949
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	90

HICKSVILLE DEPT OF PUBLIC WORKS (Continued) 1000272870

Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB2115963
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NY23561B
Trans2 State ID:	Not reported
Generator Ship Date:	901207
Trans1 Recv Date:	901207
Trans2 Recv Date:	901213
TSD Site Recv Date:	901214
Part A Recv Date:	910409
Part B Recv Date:	910130
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NYD000691949
Trans2 EPA ID:	NYD000691949
TSDF ID:	OHD980700942
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00440
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	008
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB2242296
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJXK18WY
Trans2 State ID:	V29363
Generator Ship Date:	910503
Trans1 Recv Date:	910503
Trans2 Recv Date:	910516

HICKSVILLE DEPT OF PUBLIC WORKS (Continued) **1000272870**

TSD Site Recv Date:	910524
Part A Recv Date:	910514
Part B Recv Date:	910618
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NYD000691949
Trans2 EPA ID:	PAD085690592
TSDF ID:	OHD980700942
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00255
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB2223927
Manifest Status:	Completed copy
Trans1 State ID:	NYGX6293
Trans2 State ID:	Not reported
Generator Ship Date:	910521
Trans1 Recv Date:	910521
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910521
Part A Recv Date:	910611
Part B Recv Date:	910610
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NYD000691949
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000691949
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00300
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

HICKSVILLE DEPT OF PUBLIC WORKS (Continued) **1000272870**

Year:	91
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB5290785
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	N23200
Trans2 State ID:	Not reported
Generator Ship Date:	920722
Trans1 Recv Date:	920722
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920722
Part A Recv Date:	Not reported
Part B Recv Date:	920914
Generator EPA ID:	NYD982789737
Trans1 EPA ID:	NYD980592570
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00450
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	120
Year:	92
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	HICKSVILLE DEPT OF PUBLIC WORKS
Facility address:	NEW SOUTH RD & MORRIS ST HICKSVILLE, NY 11801
EPA ID:	NYD982789737
Mailing address:	MILLER PL

HICKSVILLE DEPT OF PUBLIC WORKS (Continued) 1000272870

SYOSSET, NY 11791
Contact: Not reported
Contact address: MILLER PL
SYOSSET, NY 11791
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DEPT OF PUBLIC WORKS
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DEPT OF PUBLIC WORKS
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: HICKSVILLE DEPT OF PUBLIC WORKS
Classification: Not a generator, verified

HICKSVILLE DEPT OF PUBLIC WORKS (Continued) 1000272870

Date form received by agency: 07/08/1999
Facility name: HICKSVILLE DEPT OF PUBLIC WORKS
Classification: Not a generator, verified

Date form received by agency: 03/12/1992
Facility name: HICKSVILLE DEPT OF PUBLIC WORKS
Site name: OYSTER BAY
Classification: Large Quantity Generator

Date form received by agency: 09/22/1989
Facility name: HICKSVILLE DEPT OF PUBLIC WORKS
Classification: Large Quantity Generator

Violation Status: No violations found

D31
West
1/8-1/4
0.128 mi.
675 ft.

U.S. POSTAL VEHICLE MAINT
109 LUDY ST.
HICKSVILLE, NY

Site 1 of 2 in cluster D

UST U003377385
AST N/A

Relative:
Higher

Actual:
133 ft.

UST:
Facility ID: 056169
Owner Name: U.S. POSTAL SERVICE
Owner Address: P.O. BOX 8000
Owner City,St,Zip: HICKSVILLE, NY 11802 9304
Permitee Name: INDUSTRIAL REALTY CO.
Permitee Address: 58-58 GRAND AVE.
Permitee City,St,Zip: MASPETH, NY 11378

Tank ID: 0011
Tank Location: Indoors, Belowground
Capacity (Gal): 00001000
Tank Status: In Service
Tank Material: STEEL
Int Protection: Internal Lining
Ext Protection: FIBERGLASS REINFORCED PLASTIC
Piping Type: Steel/Iron
Material Type: Waste
Description: WATER, OIL
Leak Detect: ELECTRONIC
Containment: DOUBLE WALL TANK
Product Gauge: No
Dispense Method: Suction
Fill Type: Gravity
Install Date: 081994

AST:
Facility ID: 056169
Tank ID: 0002
Tank Location: Indoors, Aboveground
Capacity (Gal): 00001000
Tank Status: In Service
Tank Material: STEEL
Int Protection: None
Ext Protection: PAINTED [e.g. asphaltic]
Piping Type: Steel/Iron
Material Type: Waste

Century Collision, Inc.

Previous Owner and Occupant
46-504-101 (grouped with lot 103)
321 New South Road

Source: USEPA Manifest List

SERVO CORP. OF AMERICA (Continued) **S108146245**

Threat to Environment/Public Health:	Unknown
Surface Water Contamination:	No
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Sole
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	No
Hazardous Exposure:	No
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	F
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

F38
South
1/8-1/4
0.154 mi.
811 ft.

CENTURY COLLISION INC
321 NEW SOUTH RD
HICKSVILLE, NY 11801

Site 1 of 3 in cluster F

FINDS 1000422539
MANIFEST NYD054994280
RCRA-CESQG
MANIFEST

Relative:
Lower

Actual:
125 ft.

FINDS:
Other Pertinent Environmental Activity Identified at Site

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

CENTURY COLLISION INC (Continued) 1000422539

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD054994280
Facility Name:	CENTURY COLLISION INCORPORATED
Facility Address:	321 NEW SOUTH ROAD
Facility City:	HICKSVILLE
Facility Address 2:	Not reported
Country:	USA
Mailing Name:	CENTURY COLLISION INCORPORATED
Mailing Contact:	G KELAHER
Mailing Address:	321 NEW SOUTH ROAD
Mailing Address 2:	Not reported
Mailing City:	HICKSVILLE
Mailing State:	NY
Mailing Zip:	11801
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	516-433-6290

Document ID:	CTC0252243
Manifest Status:	Completed copy
Trans1 State ID:	P78062IL
Trans2 State ID:	Not reported
Generator Ship Date:	891129
Trans1 Recv Date:	891129
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891204
Part A Recv Date:	891204
Part B Recv Date:	891213
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	F003 - UNKNOWN
Quantity:	00135
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	89
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

CENTURY COLLISION INC (Continued) **1000422539**

Document ID:	CTB0098693
Manifest Status:	Completed copy
Trans1 State ID:	G65142CT
Trans2 State ID:	Not reported
Generator Ship Date:	871020
Trans1 Recv Date:	871020
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	871023
Part A Recv Date:	871106
Part B Recv Date:	871030
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	VAD980831580
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	F003 - UNKNOWN
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	87
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF0484535
Manifest Status:	Completed copy
Trans1 State ID:	P207055IL
Trans2 State ID:	Not reported
Generator Ship Date:	960612
Trans1 Recv Date:	960612
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960613
Part A Recv Date:	960621
Part B Recv Date:	960621
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	NJD080631369
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	F003 - UNKNOWN
Quantity:	00725
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

CENTURY COLLISION INC (Continued) 1000422539

Year:	96
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF1173240
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	07/13/2005
Trans1 Recv Date:	07/13/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/14/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	P98709IL
Trans2 EPA ID:	Not reported
TSDF ID:	CTD021816889
Waste Code:	F003 - UNKNOWN
Quantity:	00180
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	Not reported
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTB0047397
Manifest Status:	Completed copy
Trans1 State ID:	TJ73483VA
Trans2 State ID:	Not reported
Generator Ship Date:	861030
Trans1 Recv Date:	861030

CENTURY COLLISION INC (Continued) **1000422539**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861031
Part A Recv Date:	861110
Part B Recv Date:	861112
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	VAD980831580
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	F003 - UNKNOWN
Quantity:	00083
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	86
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA0851113
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900517
Trans1 Recv Date:	900517
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900518
Part A Recv Date:	900629
Part B Recv Date:	900530
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F005 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	90
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported

CENTURY COLLISION INC (Continued) **1000422539**

Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAG1524820
Manifest Status:	Completed copy
Trans1 State ID:	P52018IL
Trans2 State ID:	Not reported
Generator Ship Date:	930721
Trans1 Recv Date:	930721
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930722
Part A Recv Date:	930730
Part B Recv Date:	930813
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	MAD053452637
Waste Code:	F003 - UNKNOWN
Quantity:	00050
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAM1186790
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	08/16/2000
Trans1 Recv Date:	08/16/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/17/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	MAD053452637

CENTURY COLLISION INC (Continued) **1000422539**

Trans2 EPA ID:	Not reported
TSDF ID:	P298709IL
Waste Code:	F003 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	00
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF0886559
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2003
Trans1 Recv Date:	07/17/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/23/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	CTD021816889
Trans2 EPA ID:	Not reported
TSDF ID:	P298709IL
Waste Code:	F003 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	03
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

CENTURY COLLISION INC (Continued) **1000422539**

Mgmt Method Type Code: Not reported

Document ID:	NJA1030565
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	910104
Trans1 Recv Date:	910104
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910107
Part A Recv Date:	910124
Part B Recv Date:	910130
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F005 - UNKNOWN
Quantity:	00130
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	91
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF0515048
Manifest Status:	Completed copy
Trans1 State ID:	P207055IL
Trans2 State ID:	Not reported
Generator Ship Date:	970528
Trans1 Recv Date:	970528
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970529
Part A Recv Date:	970609
Part B Recv Date:	970610
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	NJD080631369
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	F003 - UNKNOWN
Quantity:	00611
Units:	P - Pounds
Number of Containers:	001

CENTURY COLLISION INC (Continued) 1000422539

Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAH3813360
Manifest Status:	Completed copy
Trans1 State ID:	P52018IL
Trans2 State ID:	Not reported
Generator Ship Date:	940401
Trans1 Recv Date:	940401
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940407
Part A Recv Date:	940412
Part B Recv Date:	940419
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	MAD053452637
Waste Code:	F003 - UNKNOWN
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA0424706
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS961

CENTURY COLLISION INC (Continued) 1000422539

Trans2 State ID:	Not reported
Generator Ship Date:	880413
Trans1 Recv Date:	880413
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880414
Part A Recv Date:	880503
Part B Recv Date:	880426
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	VAD980831580
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F005 - UNKNOWN
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	88
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA1160708
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	910711
Trans1 Recv Date:	910711
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910712
Part A Recv Date:	910719
Part B Recv Date:	910726
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F005 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	91
Manifest Tracking Num:	Not reported
Import Ind:	Not reported

CENTURY COLLISION INC (Continued) 1000422539

Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF0899729
Manifest Status:	Not reported
Trans1 State ID:	P298709IL
Trans2 State ID:	Not reported
Generator Ship Date:	05/19/2004
Trans1 Recv Date:	05/19/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/24/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	NJD080631369
Trans2 EPA ID:	Not reported
TSDF ID:	CTD021816
Waste Code:	F003 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	04
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAK0296030
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	04/20/1998
Trans1 Recv Date:	04/20/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/23/1998
Part A Recv Date:	Not reported

CENTURY COLLISION INC (Continued) 1000422539

Part B Recv Date:	Not reported
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	MAD053452637
Trans2 EPA ID:	Not reported
TSDF ID:	P207061IL
Waste Code:	F003 - UNKNOWN
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	98
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAM1497130
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2001
Trans1 Recv Date:	07/17/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/20/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	MAD053452637
Trans2 EPA ID:	Not reported
TSDF ID:	P298709IL
Waste Code:	F003 - UNKNOWN
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	01
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported

CENTURY COLLISION INC (Continued) 1000422539

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF1173240
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	07/13/2005
Trans1 Recv Date:	07/13/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/14/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	P98709IL
Trans2 EPA ID:	Not reported
TSDF ID:	CTD021816889
Waste Code:	F003 - UNKNOWN
Quantity:	00180
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2005
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA0520494
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS961
Trans2 State ID:	Not reported
Generator Ship Date:	881221
Trans1 Recv Date:	881221
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881222
Part A Recv Date:	890103
Part B Recv Date:	890105
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	VAD980831580
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F005 - UNKNOWN

CENTURY COLLISION INC (Continued) 1000422539

Quantity:	00160
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAF3662010
Manifest Status:	Completed copy
Trans1 State ID:	P14004IL
Trans2 State ID:	Not reported
Generator Ship Date:	920110
Trans1 Recv Date:	920110
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920115
Part A Recv Date:	920122
Part B Recv Date:	920127
Generator EPA ID:	NYD054994280
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	MAD053452637
Waste Code:	F003 - UNKNOWN
Quantity:	00105
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	92
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

CENTURY COLLISION INC (Continued) 1000422539

Click this hyperlink while viewing on your computer to access
8 additional NY_MANIFEST: record(s) in the EDR Site Report.

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: CENTURY COLLISION INC
Facility address: 321 NEW SOUTH RD
HICKSVILLE, NY 11801
EPA ID: NYD054994280
Mailing address: NEW SOUTH RD
HICKSVILLE, NY 11801
Contact: JERRY KELAHER
Contact address: NEW SOUTH RD
HICKSVILLE, NY 11801
Contact country: US
Contact telephone: (516) 433-6290
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

CENTURY COLLISION INC (Continued) 1000422539

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: CENTURY COLLISION INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/21/1985
Facility name: CENTURY COLLISION INC
Classification: Small Quantity Generator

Violation Status: No violations found

CT MANIFEST:
Manifest No: Not reported
Waste Occurence: Not reported
UNNA: Not reported
Hazard Class: Not reported
US Dot Description: Not reported
No of Containers: Not reported
Container Type: Not reported
Quantity: Not reported
Weight/Volume: Not reported
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: Not reported
DEO Who Last Modified Record: Not reported
Manifest No: Not reported
Waste Occurence: Not reported
EPA Waste Code: Not reported
Recycled Waste?: Not reported
Date Record Was Last Modified: Not reported
DEO Who Last Modified Record: Not reported
Year: 2005
Manifest ID: ctf1173240
TSDF EPA ID: CTD021816889
TSDF Name: UNITED OIL RECOVERY, INC.
TSDF Address: 14 WEST MAIN STREET
TSDF City,St,Zip: MERIDEN, CT 06451
TSDF Country: USA

CENTURY COLLISION INC (Continued) 1000422539

TSDF Telephone:	(203)238-6745
Transport Date:	07/13/05
Transporter EPA ID:	NJD080631369
Transporter Name:	ONYX ENVIRONMENTAL SERVICES, L.L.C.
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	nyd054994280
Gererator Phone:	5164336290
Generator Address:	321 NEW SOUTH RD
Generator City,State,Zip:	HICKSVILLE, NY 11801
Generator Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	07/13/05
Date Received:	07/14/05
Last modified date:	01/09/06
Last modified by:	JEB
Comments:	Not reported
Year:	2004
Manifest ID:	ctf0899729
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY, INC.
TSDF Address:	14 WEST MAIN STREET
TSDF City,St,Zip:	MERIDEN, CT 06451
TSDF Country:	USA
TSDF Telephone:	(203)238-6745
Transport Date:	05/19/04
Transporter EPA ID:	NJD080631369
Transporter Name:	ONYX ENVIRONMENTAL SERVICES, L.L.C.
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD054994280
Gererator Phone:	5164336290
Generator Address:	321 NEW SOUTH RD
Generator City,State,Zip:	HICKSVILLE, NY 11801
Generator Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	05/19/04
Date Received:	05/24/04
Last modified date:	05/10/05
Last modified by:	CYF
Comments:	Not reported

CENTURY COLLISION INC (Continued) 1000422539

Year:	2003
Manifest ID:	CTF0886559
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY INC
TSDF Address:	136 GRACEY AVE
TSDF City,St,Zip:	MERIDEN, CT 06450
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	07/17/03
Transporter EPA ID:	NJD080631369
Transporter Name:	ONYX ENVIRONMENTAL SERVICE LLC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD054994280
Gererator Phone:	5164336290
Generator Address:	Not reported
Generator City,State,Zip:	CT
Generator Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	07/17/03
Date Received:	/ /
Last modified date:	05/26/04
Last modified by:	IG
Comments:	Not reported
Year:	1997
Manifest ID:	CTF0515048
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESOURCES
TSDF Address:	130 FREIGHT ST. WATERBURY
TSDF City,St,Zip:	CT 06725
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	05/28/97
Transporter EPA ID:	NJD080631369
Transporter Name:	ADVANCED ENVIRONMENTAL TECHNICAL SERVICE
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD054994280
Gererator Phone:	5164336290
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported

CENTURY COLLISION INC (Continued) 1000422539

Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	05/28/97
Date Received:	05/29/97
Last modified date:	04/26/04
Last modified by:	IG
Comments:	Not reported
Year:	1996
Manifest ID:	CTF0484535
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESOURCES
TSDF Address:	130 FREIGHT ST. WATERBURY
TSDF City,St,Zip:	CT 06725
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	06/12/96
Transporter EPA ID:	NJD080631369
Transporter Name:	ONYX ENVIRONMENTAL SERVICE LLC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD054994280
Gererator Phone:	5164336290
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	06/12/96
Date Received:	06/13/96
Last modified date:	04/26/04
Last modified by:	IG
Comments:	Not reported
Year:	1995
Manifest ID:	CTF0415928
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESOURCES
TSDF Address:	130 FREIGHT ST. WATERBURY
TSDF City,St,Zip:	CT 06725
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	05/25/95
Transporter EPA ID:	ILD099202681
Transporter Name:	CHEMICAL WASTE MANAGEMENT, INC. (TRANSPORTER)
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT

CENTURY COLLISION INC (Continued) 1000422539

Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD054994280
Gererator Phone:	5164336290
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	05/25/95
Date Received:	06/01/95
Last modified date:	04/26/04
Last modified by:	IG
Comments:	Not reported
Year:	1989
Manifest ID:	CTC0243990
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESOURCES, INC.
TSDF Address:	130 FREIGHT STREET
TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	06/06/89
Transporter EPA ID:	ILD099202681
Transporter Name:	CHEMICAL WASTE MANAGEMENT, INC. (TRANSPORTER)
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD054994280
Gererator Phone:	5164336290
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	06/06/89
Date Received:	06/07/89
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported
Year:	1989
Manifest ID:	CTC0252243
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESOURCES, INC.
TSDF Address:	130 FREIGHT STREET
TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	11/29/89
Transporter EPA ID:	ILD099202681
Transporter Name:	CHEMICAL WASTE MANAGEMENT, INC. (TRANSPORTER)

1000422539

CENTURY COLLISION INC (Continued)

Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD054994280
Gererator Phone:	5164336290
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	11/29/89
Date Received:	12/04/89
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported
Year:	1987
Manifest ID:	CTB0098693
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESOURCES, INC.
TSDF Address:	130 FREIGHT STREET
TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	10/20/87
Transporter EPA ID:	VAD980831580
Transporter Name:	HAZCO INTERNATIONAL, INC.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD054994280
Gererator Phone:	5164336290
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	10/20/87
Date Received:	10/23/87
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

ARCADIS

Coral Graphics

Previous Occupant
46-504-140
327 New South Road

Source: NYSDEC Voluntary Cleanup Program, NYSDEC Spill List, and NYSDEC Spill Incidents Database

SID HARVEY (Continued) **S102138537**

Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Fire Department
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 02/13/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 02/14/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: DRIVER MAKING DELIVERY SPILLED, APPLIED SPEEDI DRI THERE IS A SHEEN IN THE STORM DRAIN.

C25 **CONSTRUCTION SITE** **VCP S104905165**
SSW **327 NEW SOUTH ROAD** **NY Spills N/A**
< 1/8 **HICKSVILLE, NY**
0.062 mi.
328 ft. **Site 3 of 5 in cluster C**

Relative:
Lower

Actual:
128 ft.

VCP:
Program Type: VCP
Site Code: 56996
HW Code: V00416
Site Class: A
SWIS: 3024
Region: 1
Town: Oyster Bay
Acres: Not reported
Date Record Added: 11/30/2000 4:06:00 PM

CONSTRUCTION SITE (Continued) **S104905165**

Date Record Updated: 11/4/2008 1:36:00 PM
Updated By: WJPARISH
Assessment: Soil contamination in the former on-site leaching pools and dry-wells have been removed during an Interim Remedial Measure (IRM) and the site is covered with asphalt or other contact barrier. Therefore, exposures to any possible residual soil contamination is not likely. Public water systems service this area, thus exposures related to groundwater are not expected to occur. The closest downgradient public water supply well is being treated for contamination associated with nearby sites (Grummon Aerospace and the Naval Weapons Plant sites). Indoor air sampling of the on-site facility does not indicate a soil vapor intrusion issue at this time.
Env Problems: Some limited sediment contamination in dry wells and former sanitary pools has been remediated. An improperly abandoned UST has been removed and did not cause any environmental contamination. Based on the results of the voluntary investigation, there is no groundwater contamination that is attributable to this site.
Site Desc: The site consists of a one story building constructed in 1957 on a 42,900 square foot lot located in an industrial area in Hicksville. After being acquired by Coral Graphics in the mid 1990's, the site has been used by Coral Graphics, a printer ofbook jackets, advertising brocheres, posters, annual reports and retail merchandising materials, as a warehouse to store paper goods, equipment, and office supplies. Phase I and Phase II Investigations in 2000 indicated some historical groundwatercontamination in the vicinity of the former sanitary system for this site. A voluntary cleanup agreement was executed on February 26, 2001. A voluntary investigation work plan was developed in 2001. This investigation was performed in 2002 and 2003. The investigation detected some limited contamination in on-site dry wells and former sanitary leaching pools by metals and oil related semi-volatile organic compounds. An improperly abandoned underground storage tank (UST) formerly used to hold fuel oil was also discovered. Essentially, no site related groundwater contamination was detected. In conjunction with the investigation, the impacted dry wells and sanitary leaching pools were remediated by removing the contaminated sediments.The UST was properly removed. There was no evidence of leakage from this tank. The Remedial Investigation/Interim Remedial Measure Report was approved concurrently with the issuance of the Assignable Release and Covenant Not to Sue Letter issued on 8/22/07.

NY Spills:

Site ID:	154277
Facility Addr2:	Not reported
Facility ID:	0225285
Spill Number:	0225285
Facility Type:	ER
SWIS:	3024
Investigator:	WJGABIN
Referred To:	Not reported
Spill Date:	10/17/02
Reported to Dept:	10/17/02
CID:	03
Spill Cause:	Human Error
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	DEC
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended

CONSTRUCTION SITE (Continued) **S104905165**

UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	06/01/05
Remediation Phase:	0
Date Entered In Computer:	10/17/02
Spill Record Last Update:	08/22/05
Spiller Name:	Not reported
Spiller Company:	CORAL GRAPHICS
Spiller Address:	840 BROADWAY
Spiller City,St,Zip:	HICKSVILLE, NY
Spiller Company:	001
Contact Name:	ERIC ARNESEN
Contact Phone:	Not reported
DEC Region:	1
DER Facility ID:	130834

Material:

Site ID:	154277
Operable Unit ID:	864274
Operable Unit:	01
Material ID:	509409
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

DEC Memo: Prior to Sept, 2004 data translation this spill Lead DEC Field was "GABIN 02-090" TANK WAS REMOVED BY ESI, NO SIGN OF CONTAMINATED SOIL 10/17 15:30 AS PER BOB, REPORTEDLY 3K TANK, TANK WAS PARTIALLY ABANDONED IN CONCRETE, TOOK GW AT TANKRECENTLY-OK, SITE IS VOLUNTARY CLEANUP 11/06 16:00 TELECON WITH ERIC

Remarks: Construction being done on-site, drilling crew drilled an auger through the top of the 3,000 fuel oil underground tank. Approximately 8" of product remaining in tank. Inspector assigned the spill please contact Bob in haz-waste.

C26 **F.C. PROPERTIES** **AST A100101621**
SSW **327 NEW SOUTH RD.** **N/A**
< 1/8 **HICKSVILLE, NY**
0.062 mi.
328 ft. **Site 4 of 5 in cluster C**

Relative:
Lower

Actual:
128 ft.

AST:

Facility ID:	057709
Tank ID:	0001
Tank Location:	Outdoors, Aboveground
Capacity (Gal):	00001500
Tank Status:	In Service
Tank Material:	STEEL
Int Protection:	Internal Lining
Ext Protection:	PAINTED [e.g. asphaltic]
Piping Type:	Steel/Iron
Material Type:	Fresh/Product

F.C. PROPERTIES (Continued) **A100101621**

Description:	OIL, FUEL #2
Leak Detect:	OTHER
Containment:	DOUBLE WALL TANK
Product Gauge:	Yes
Dispense Method:	Suction
Fill Type:	Pumped
Install Date:	091993
Owner Name:	FRANK CAPPO
Owner Address:	840 S. BROADWAY
Owner City,St,Zip:	HICKSVILLE, NY 11801
Permitee Name:	FRANK CAPPO
Permitee Address:	Not reported
Permitee City,St,Zip:	Not reported

C27 **CORAL GRAPHICS** **NY Spills** **S106698352**
SSW **327 NEW SOUTH RD** **N/A**
< 1/8 **HICKSVILLE, NY**
0.062 mi.
328 ft. **Site 5 of 5 in cluster C**

Relative:
Lower

Actual:
128 ft.

NY Spills:

Site ID:	201011
Facility Addr2:	Not reported
Facility ID:	0405371
Spill Number:	0405371
Facility Type:	ER
SWIS:	3024
Investigator:	UNASSIGNED
Referred To:	Not reported
Spill Date:	08/16/04
Reported to Dept:	08/16/04
CID:	03
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/29/04
Remediation Phase:	0
Date Entered In Computer:	08/16/04
Spill Record Last Update:	03/02/05
Spiller Name:	ROBT VITALE
Spiller Company:	CORAL GRAPHICS
Spiller Address:	327 NEW SOUTH RD
Spiller City,St,Zip:	HICKSVILLE, NY 11801
Spiller Company:	001
Contact Name:	ROBT VITALE
Contact Phone:	(516) 576-2100
DEC Region:	1
DER Facility ID:	167256

Material:

CORAL GRAPHICS (Continued) S106698352

Site ID:	201011
Operable Unit ID:	888904
Operable Unit:	01
Material ID:	489526
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

DEC Memo: SPOKE WITH FIRE MARSHALL SIVIGLIA, MILLER ENROUTE TO VAC OUT THE IMPACTED AREA, ONE DRYWELL IN THE BACK OF BLDG IMPACTED, WILL ALSO BE VAC OUT

Remarks: 1200 GALLON STORAGE TANK LEAKING (TANK WITHIN TANK). UNABLE TO TELL WHERE ACTUAL SPILL IS COMING FROM.

28
ENE
< 1/8
0.071 mi.
374 ft.

LILCO
60 COMMERCE STREET
HICKSVILLE, NY

NY Spills S102135997
NY Hist Spills N/A

Relative:
Equal

Actual:
131 ft.

NY Spills:

Site ID:	60092
Facility Addr2:	Not reported
Facility ID:	9110773
Spill Number:	9110773
Facility Type:	ER
SWIS:	3000
Investigator:	AYLEUNG
Referred To:	Not reported
Spill Date:	01/15/92
Reported to Dept:	01/15/92
CID:	03
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	01/21/92
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	01/21/92
Remediation Phase:	0
Date Entered In Computer:	01/16/92
Spill Record Last Update:	01/22/92
Spiller Name:	Not reported
Spiller Company:	LILCO
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Environmental Site Remediation Database Search Details

Site Record

Administrative Information

Site Name: Coral Graphics, Inc. (327 New South Rd)
Site Code: V00416
Program: Voluntary Cleanup Program
Classification: A
EPA ID Number:

Location

DEC Region: 1
Address: 327 New South Road
City: Hicksville Zip: 11801-
County: Nassau
Latitude: 40.757505962
Longitude: -73.506053251
Site Type:
Estimated Size: 0 Acres

Site Owner(s) and Operator(s)

Current Owner Name: F.C.PROPERTIES,INC
Current Owner(s) Address: 31 COMMERCIAL STREET
HICKSVILLE,NY, 11801
Owner(s) during disposal: Information not available
Operator during disposal: CORAL GRAPHICS,INC.
Stated Operator(s) Address: 840 SOUTH BROADWAY
HICKSVILLE,NY 11801

Site Description

The site consists of a one story building constructed in 1957 on a 42,900 square foot lot located in an industrial area in Hicksville. After being acquired by Coral Graphics in the mid 1990's, the site has been used by Coral Graphics, a printer of book jackets, advertising brocheres, posters, annual reports and retail merchandising materials, as a warehouse to store paper goods, equipment, and office supplies. Phase I and Phase II Investigations in 2000

indicated some historical groundwater contamination in the vicinity of the former sanitary system for this site. A voluntary cleanup agreement was executed on February 26, 2001. A voluntary investigation work plan was developed in 2001. This investigation was performed in 2002 and 2003. The investigation detected some limited contamination in on-site dry wells and former sanitary leaching pools by metals and oil related semi-volatile organic compounds. An improperly abandoned underground storage tank (UST) formerly used to hold fuel oil was also discovered. Essentially, no site related groundwater contamination was detected. In conjunction with the investigation, the impacted dry wells and sanitary leaching pools were remediated by removing the contaminated sediments. The UST was properly removed. There was no evidence of leakage from this tank. The Remedial Investigation/Interim Remedial Measure Report was approved concurrently with the issuance of the Assignable Release and Covenant Not to Sue Letter issued on 8/22/07.

Summary of Project Completion Dates

Projects associated with this site are listed in the Project Completion Dates table and are grouped by Operable Unit (OU). A site can be divided into a number of operable units depending on the complexity of the site and the number of issues associated with a site. Sites are often divided into operable units based on the media to be addressed (such as groundwater or contaminated soil), geographic area, or other factors.

Contaminants of Concern (Including Materials Disposed)

Type of Waste	Quantity of Waste
Hazardous Substances	UNKNOWN

Site Environmental Assessment

Some limited sediment contamination in dry wells and former sanitary pools has been remediated. An improperly abandoned UST has been removed and did not cause any environmental contamination. Based on the results of the voluntary investigation, there is no groundwater contamination that is attributable to this site.

Site Health Assessment

Soil contamination in the former on-site leaching pools and dry-wells have been removed during an Interim Remedial Measure (IRM) and the site is covered with asphalt or other contact barrier. Therefore, exposures to any possible residual soil contamination is not likely. Public water systems service this area, thus exposures related to groundwater are not expected to occur. The closest downgradient public water supply well is being treated for contamination associated with nearby sites (Grummon Aerospace and the Naval Weapons Plant sites). Indoor air sampling of the on-site facility does not indicate a soil vapor intrusion issue at this time.

For more Information: E-mail Us

Back to Search Results

Refine Current Search

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 0225285

Spill Date/Time

Spill Date: 10/17/2002 **Spill Time:** 09:42:00 AM
Call Received Date: 10/17/2002 **Call Received Time:** 09:42:00 AM

Location

Spill Name: CONSTRUCTION SITE
Address: 327 NEW SOUTH ROAD
City: HICKSVILLE **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 Fuel Oil	UNKNOWN	Soil

Cause: Human Error
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 06/01/2005

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Back to Search Results

Refine Current Search

ARCADIS

Francis A. Lee Company

Previous Occupant
46-504-139
335 New South Road

Source: USEPA Manifest List

KOSY SHACK (Continued) 1000212440

Facility name: KOZY SHACK ENTERPRISES
Classification: Small Quantity Generator

Date form received by agency: 11/20/2006
Facility name: KOZY SHACK ENTERPRISES
Classification: Small Quantity Generator

Date form received by agency: 08/01/2001
Facility name: KOZY SHACK ENTERPRISES
Site name: KOSY SHACK
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/08/1999
Facility name: KOZY SHACK ENTERPRISES
Site name: KOSY SHACK
Classification: Not a generator, verified

Date form received by agency: 01/19/1989
Facility name: KOZY SHACK ENTERPRISES
Site name: KOSY SHACK
Classification: Small Quantity Generator

Violation Status: No violations found

F40
South
1/8-1/4
0.178 mi.
941 ft.

FRANCIS A LEE CO
335 NEW SOUTH RD
HICKSVILLE, NY 11801

FINDS 1000912299
MANIFEST NY0000588467
RCRA-CESQG

Site 2 of 3 in cluster F

Relative:
Lower

Actual:
124 ft.

FINDS:
Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NY0000588467
Facility Name: FRANCIS A LEE COMPANY
Facility Address: 335 NEW SOUTH ROAD
Facility City: HICKSVILLE
Facility Address 2: Not reported
Country: USA
Mailing Name: FRANCIS A LEE COMPANY
Mailing Contact: JACK BLAUH
Mailing Address: 335 NEW SOUTH ROAD
Mailing Address 2: Not reported
Mailing City: HICKSVILLE
Mailing State: NY
Mailing Zip: 11801
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 516-938-2000

FRANCIS A LEE CO (Continued) 1000912299

Document ID:	ILA1267961
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	08/12/2005
Trans1 Recv Date:	08/12/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/23/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000588467
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	ILD980613913
Waste Code:	F005 - UNKNOWN
Quantity:	00880
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	Not reported
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	ILA1267961
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	08/12/2005
Trans1 Recv Date:	08/12/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/23/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000588467
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	ILD980613913
Waste Code:	F005 - UNKNOWN
Quantity:	00880
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00

FRANCIS A LEE CO (Continued) **1000912299**

Year:	2005
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	FRANCIS A LEE CO
Facility address:	335 NEW SOUTH RD HICKSVILLE, NY 118015225
EPA ID:	NY0000588467
Mailing address:	BETHPAGE RD HICKSVILLE, NY 11801
Contact:	JACK SCANLON
Contact address:	BETHPAGE RD HICKSVILLE, NY 11801
Contact country:	US
Contact telephone:	(516) 938-2000
Telephone ext.:	228
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	NO NAME FOUND
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	05/01/2003
Owner/Op end date:	Not reported

FRANCIS A LEE CO (Continued) 1000912299

Owner/operator name: MATT-CON SERVICES
Owner/operator address: BETHPAGE RD
HICKSVILLE, NY 11801
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/01/2003
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: FRANCIS A LEE CO
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/01/2005
Facility name: FRANCIS A LEE CO
Classification: Small Quantity Generator

Date form received by agency: 07/08/1999
Facility name: FRANCIS A LEE CO
Site name: VOIGT PROPERTY
Classification: Not a generator, verified

Date form received by agency: 08/15/1994
Facility name: FRANCIS A LEE CO
Site name: VOIGT PROPERTY
Classification: Large Quantity Generator

Violation Status: No violations found

(progname=&program_search=2&report=1&page_no=1&output_sql_switch=TRUE&database_type=RCRAINFO

Resource Conservation and Recovery Act (RCRAInfo)

Last Updated on Thursday, September 16, 2010

Query Results

Report an Error

RCRAInfo

Data Disclaimer

Only RCRAInfo facility information was searched to select facilities

Handler ID: Beginning With: NY0000588467

Results are based on data extracted on AUG-16-2010

Note: Click on the underlined CORPORATE LINK value for links to that company's environmental web pages.
Click on the underlined MAPPING INFO value to obtain mapping information for the facility.

Go To Bottom Of The Page

HANDLER NAME:	FRANCIS A LEE CO	HANDLER ID:	NY0000588467
STREET:	NEW SOUTH RD	FACILITY INFORMATION:	View Facility Information
CITY:	HICKSVILLE	CORPORATE LINK:	No
STATE:	NY	COUNTY:	NASSAU
ZIP CODE:	118015225	MAPPING INFO:	MAP
EPA REGION:	2		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JACK SCANLON	BETHPAGE RD	HICKSVILLE	NY	11801	5169382000 228	Public
AL VALERIO	PO BOX 1351	MELVILLE	NY	11747	5166730037	Permit
JACK SCANLON	BETHPAGE RD	HICKSVILLE	NY	11801	5169382000, 228	Permit

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
811121	AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

ARCADIS

Matt-Conn Services Corporation

Current Owner and Occupant
46-504-139
335 New South Road

Source: NY Leaking Tanks Database

F41
South
1/8-1/4
0.178 mi.
941 ft.

VACANT COMM BLDG
335 NEW SOUTH ROAD
HICKSVILLE, NY

Site 3 of 3 in cluster F

LTANKS S100494026
HIST LTANKS N/A

Relative:
Lower

Actual:
124 ft.

LTANKS:

Site ID:	301546
Spill No:	9206957
Spill Date:	09/16/92
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	No spill occured. (Not Possible)
Spill Closed Dt:	12/08/93
Facility Addr2:	Not reported
Cleanup Ceased:	12/08/93
Cleanup Meets Standard:	True
SWIS:	3000
Investigator:	T/T/F
Referred To:	Not reported
Reported to Dept:	09/16/92
CID:	03
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	09/18/92
Spill Record Last Update:	10/15/01
Spiller Name:	Not reported
Spiller Company:	ERM NORTHEAST
Spiller Address:	175 FROELICH FARM BLVD
Spiller City,St,Zip:	WOODBURY, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	1
DER Facility ID:	243679
DEC Memo:	Not reported
Remarks:	10K FAILED AT -.472, PETROTITE, TYREE TESTER,

Material:

Site ID:	301546
Operable Unit ID:	970713
Operable Unit:	01
Material ID:	554227
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Groundwater
Oxygenate:	False

VACANT COMM BLDG (Continued) **S100494026**

Tank Test:
Site ID: 301546
Spill Tank Test: 1540584
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 20041001
Test Method: Unknown

HIST LTANKS:
Region of Spill: 1
Spill Number: 9206957
Spill Date: 09/16/1992
Spill Time: 14:00
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: No spill occured. (Not Possible)
Spill Closed Dt: 12/08/93
Cleanup Ceased: 12/08/93
Cleanup Meets Standard: True
Investigator: T/T/F
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 09/16/92
Reported to Department Time: 15:20
SWIS: 28
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: ERM NORTHEAST
Spiller Address: 175 FROELICH FARM BLVD
Spiller City,St,Zip: WOODBURY, NY
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (516) 921-4300
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /

VACANT COMM BLDG (Continued) **S100494026**

Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 09/18/92
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 10/15/01
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: 12/08/93: TANK REMOVED IN PRESENCE OF DEC DECANDIA 10/1/93, NO CONT SOIL ENCOUNTERED, NO FURTHER ACTION.
Spill Cause: 10K FAILED AT -.472, PETROTITE, TYREE TESTER,

G42 **KOZY SHACK, INC.** **UST** **U003377457**
WNW **50 & 83 LUDY ST.** **N/A**
1/8-1/4 **HICKSVILLE, NY**
0.184 mi.
971 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
134 ft.

UST:
Facility ID: 056888
Owner Name: V.G. REALTY OF NEW YORK
Owner Address: 50 LUDY ST.
Owner City,St,Zip: HICKSVILLE, NY 11802
Permitee Name: SAME
Permitee Address: Not reported
Permitee City,St,Zip: Not reported

Tank ID: 0001
Tank Location: Indoors, Belowground
Capacity (Gal): 00004000
Tank Status: In Service
Tank Material: Fiberglass Reinforced Plastic
Int Protection: None
Ext Protection: NONE
Piping Type: Other
Material Type: Fresh/Product
Description: OIL, FUEL #2
Leak Detect: ELECTRONIC
Containment: DOUBLE WALL TANK
Product Gauge: Yes

ARCADIS

Metropolitan Transit Authority: Long Island Railroad

Current Owner
New South Road and Long Island Railroad

Source: NYSDEC Spill Incidents Database

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 8605695

Spill Date/Time

Spill Date: 12/08/1986 **Spill Time:** 12:00:00 PM
Call Received Date: 12/09/1986 **Call Received Time:** 09:23:00 AM

Location

Spill Name: UNKNOWN
Address: NEW SOUTH ROAD LIRR TRACK
City: HICKSVILLE **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
Waste Oil/Used Oil	UNKNOWN	Soil

Cause: Deliberate
Source: Unknown
Waterbody:

Record Close

Date Spill Closed: 12/24/1990

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Back to Search Results

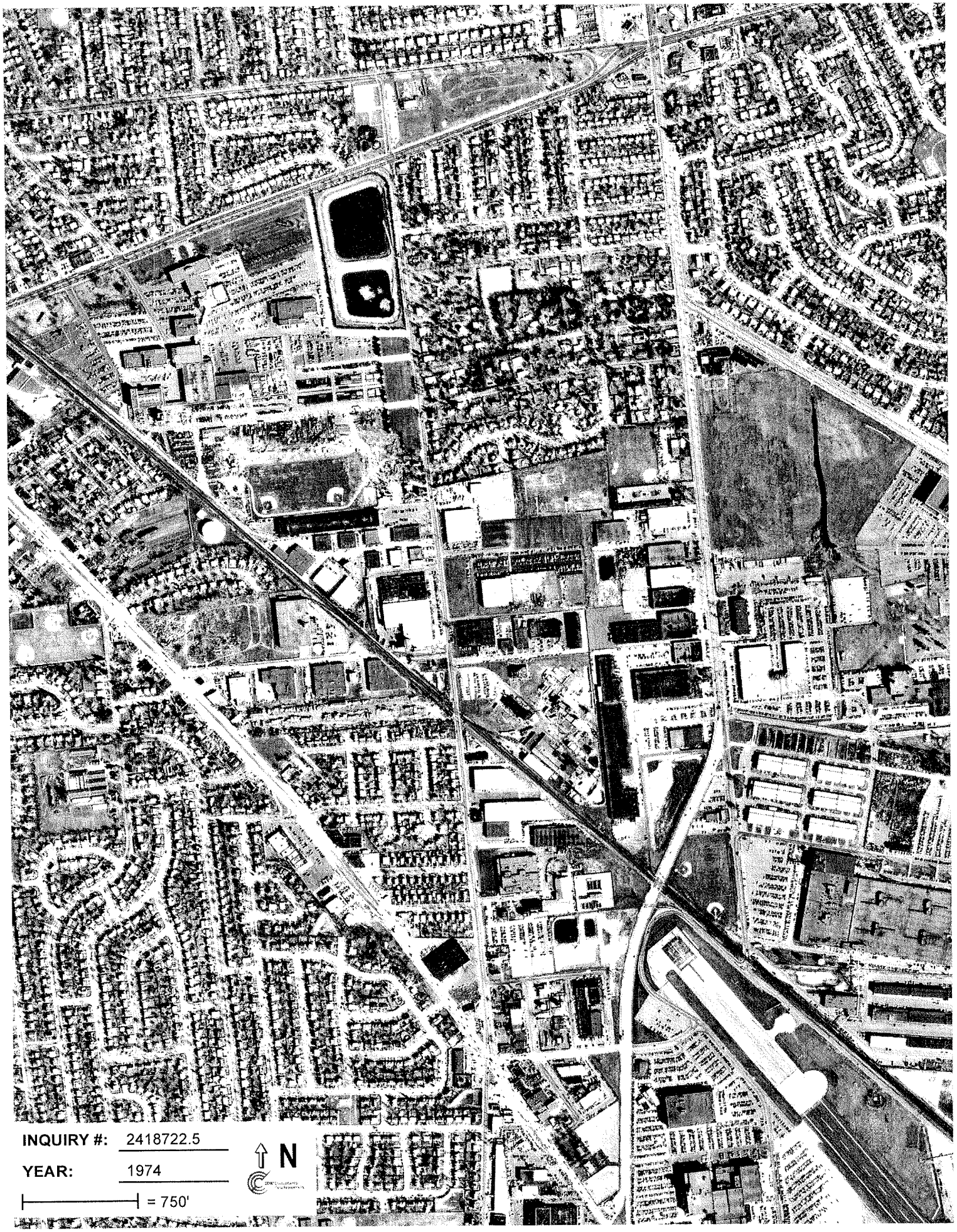
Refine Current Search

Appendix C

Historical Aerial Photos


INQUIRY #: 2418722.5
YEAR: 1953
= 500'
N


INQUIRY #: 2418722.5
YEAR: 1966
= 750'
N


INQUIRY #: 2418722.5
YEAR: 1974
= 750'
N


ABC 8093 24-1489
INQUIRY #: 2418722.5
YEAR: 1980
= 750'
N


INQUIRY #: 2418722.5
YEAR: 1994
= 750'
N

Appendix D

Material Safety Data Sheets

Material Safety Data Sheet Collection
Genium group inc.
1171 RiverFront Center, Amsterdam, NY 12010
(518) 842-4111

Issue Date: 2006-06

Section 1 - Chemical Product and Company Identification 61

Material Name: Trichloroethylene **CAS Number:** 79-01-6
Chemical Formula: C_2HCl_3
Structural Chemical Formula: $ClCH=CCl_2$
EINECS Number: 201-167-4
ACX Number: X1000039-2
Synonyms: ACETYLENE TRICHLORIDE; ALGYLEN; ANAMENTH; BENZINOL; BLACOSOLV; BLANCOSOLV; CECOLENE; CHLORILEN; 1-CHLORO-2,2-DICHLOROETHYLENE; CHLORYLEA; CHLORYLEA,CHORYLEN,CIRCOSOLV,CRAWHASPOL,DOW-TRI,DUKERON,PER-A-CLOR,TRIAD,TRIAL,TRI-PLUS M,VITRAN; CHLORYLEN; CHORYLEN; CIRCOSOLV; CRAWHASPOL; DENSINFLUAT; 1,1-DICHLORO-2-CHLOROETHYLENE; DOW-TRI; DUKERON; EPA PESTICIDE CHEMICAL CODE 081202; ETHENE,TRICHLORO-; ETHINYL TRICHLORIDE; ETHYLENE TRICHLORIDE; ETHYLENE,TRICHLORO-; FLECK-FLIP; FLOCK FLIP; FLUATE; GEMALGENE; GERMALGENE; LANADIN; LETHURIN; NARCOGEN; NARKOGEN; NARKOSOID; NIALK; NSC 389; PERM-A-CHLOR; PERM-A-CLOR; PETZINOL; PHILEX; TCE; THRETHYLEN; THRETHYLENE; TRETHYLENE; TRI; TRIAD; TRIAL; TRIASOL; TRICHLOORETHEEN; TRICHLOORETHYLEEN,TRI; TRICHLORAETHEN; TRICHLORAETHYLEN,TRI; TRICHLORAN; TRICHLOREN; TRICHLORETHENE; TRICHLORETHYLENE; TRICHLORETHYLENE,TRI; TRICHLOROETHENE; 1,1,2-TRICHLOROETHYLENE; TRICHLOROETHYLENE; TRICHLOROETHYLENE; 1,2,2-TRICHLOROETHYLENE; TRI-CLENE; TRICLENE; TRICLORETENE; TRICLOROETILENE; TRIELENE; TRIELIN; TRIELINA; TRIELINE; TRIKLONE; TRILEN; TRILENE; TRILINE; TRIMAR; TRIOL; TRI-PLUS; TRI-PLUS M; VESTROL; VITRAN; WESTROSOL
General Use: Mainly used for vapor degreasing; solvent in textile and electronics industries; for adhesives, lubricants and consumer products (such as spot removers and rug cleaners).
Until recently, it was used to make hop extracts for beer, decaffeinated coffee and spice extracts.

Section 2 - Composition / Information on Ingredients

Name	CAS	%
trichloroethylene	79-01-6	> 99

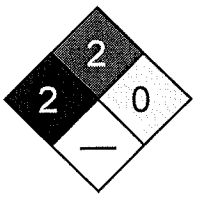
OSHA PEL
TWA: 100 ppm; Ceiling: 200 ppm; 300 ppm, 5-minute maximum peak in any 2 hours.

NIOSH REL

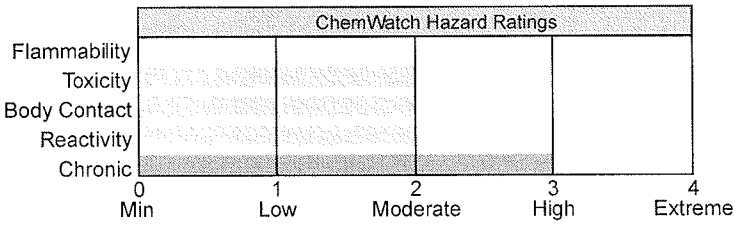
IDLH Level
1000 ppm.

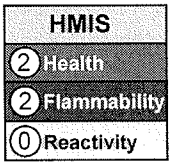
ACGIH TLV
TWA: 50 ppm; STEL: 100 ppm.

Section 3 - Hazards Identification



Fire Diamond





ANSI Signal Word
Warning!


Flammable

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Clear, colorless liquid; sweet odor. Irritating to eyes/skin/respiratory tract. Other Acute Effects: irregular heart beat, drunkenness. Chronic Effects: heart/liver/kidney damage, dermatitis, birth defects, cancer (animal studies). Flammable.

Potential Health Effects

Target Organs: respiratory system, central nervous system (CNS), peripheral nervous system, cardiovascular system, liver, kidneys, skin

Primary Entry Routes: inhalation, skin contact, eye contact, ingestion (rarely)

Acute Effects

Inhalation: The vapor is mildly discomforting to the upper respiratory tract.
Inhalation hazard is increased at higher temperatures.
Anesthetics and narcotic effects (with dulling of senses and odor fatigue) are a consequence of exposure to chlorinated solvents.
Individual response varies widely; odor may not be considered objectionable at levels which quickly induce central nervous system effects.
High vapor concentrations may give a feeling of euphoria. This may result in reduced responses, followed by rapid onset of unconsciousness, possible respiratory arrest and death.
Acute effects from inhalation of high concentrations of vapor are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterized by headache and dizziness, increased reaction time, fatigue and loss of coordination.
If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death.
Evidence of acute human toxicity comes mainly from the use of TCE as an anesthetic, Tachypnea and ventricular arrhythmias are experienced at inhaled concentrations exceeding 15000 ppm. Systemic toxicity is low following anesthesia. Occasional hepatotoxicity (liver dysfunction) has been reported; this is probably due to the breakdown of TCE to dichloroacetylene and phosgene by soda-lime present in some anesthetic devices. The effects of TCE appear to be enhanced in some individuals by simultaneous exposure to caffeine, ethanol and other drugs. "Degreasers Flush" describes a reddening of facial, neck, and back skin and is seen after intake of substantial quantities of ethanol by certain individuals after exposures to TCE.

Eye: The liquid is highly discomforting to the eyes and is capable of causing pain and severe conjunctivitis.
Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.
The vapor is discomforting to the eyes.
The material may produce moderate eye irritation leading to inflammation.
Repeated or prolonged exposure to irritants may produce conjunctivitis.

Skin: The liquid is discomforting to the skin and may cause drying of the skin, which may lead to dermatitis.
Toxic effects may result from skin absorption.
Bare unprotected skin should not be exposed to this material. The material may accentuate any pre-existing skin condition.
The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic).
This form of dermatitis is often characterized by skin redness (erythema) and swelling (edema) which may progress to vesiculation, scaling and thickening of the epidermis.
Histologically there may be intercellular edema of the spongy layer (spongiosis) and intracellular edema of the epidermis.
Repeated exposures may produce severe ulceration.
Localized application may produce pustular eruptions, pruritus and erythema. A permeability coefficient of 1.6×10^{-2} cm/hr has been calculated by the US EPA. Percutaneous absorption is unlikely to contribute significantly to total body burdens unless dermatitis is present.

Ingestion: The liquid is highly discomforting and toxic if swallowed.
Ingestion may result in nausea, abdominal irritation, pain and vomiting.
Considered an unlikely route of entry in commercial/industrial environments.

Carcinogenicity: NTP - Not listed; IARC - Group 3, Not classifiable as to carcinogenicity to humans; OSHA - Not listed; NIOSH - Listed as carcinogen; ACGIH - Class A5, Not suspected as a human carcinogen; EPA - Not listed; MAK - Class B, Justifiably suspected of having carcinogenic potential.

Chronic Effects: Sensitive humans may experience anesthetic effects from short exposures.
Chronic effects of exposure include fatigue, headache, irritability, vomiting, skin flush and intolerance to alcohol.
Liver, kidney, heart and neurological damage may also result from chronic overexposure.
Alcohol intake may increase the toxic effects of the material.
A variety of disturbances have been seen among workers exposed at concentrations ranging from 1 to 335 ppm. These disturbances increased with the length of exposure (to 5 years or more) and where more prominent when exposures exceeded 40 ppm. Increased complaints of alcohol intolerance, tremors, giddiness and anxiety were amongst symptoms recorded. Variation in effects in different occupational settings may be due to different physical workloads.
There appeared to be no increase in the expected rates of congenital defects in children born to women exposed to TCE over a 13 year period.
Epidemiological studies consistently fail to show a link between cancers and TCE exposure. This is significant because of the tens of thousands of exposed workers monitored.

Section 4 - First Aid Measures

See DOT ERG

Inhalation: Remove to fresh air.
Lay patient down. Keep warm and rested.
If available, administer medical oxygen by trained personnel.
If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. Transport to hospital or doctor, without delay.

Eye Contact: Immediately hold the eyes open and flush continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids.
Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact: Immediately remove all contaminated clothing, including footwear (after rinsing with water).
Wash affected areas thoroughly with water (and soap if available).
Seek medical attention in event of irritation.

Ingestion: Contact a Poison Control Center.
Do NOT induce vomiting. Give a glass of water.
Avoid giving milk or oils.
Avoid giving alcohol.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Treat symptomatically.
Do not administer sympathomimetic drugs as they may cause ventricular arrhythmias.
Following acute or short-term continued exposures to trichloroethylene:
1.Trichloroethylene concentration in expired air correlates with exposure. 8 hours exposure to 100 ppm produces levels of 25 ppm immediately and 1 ppm 16 hours after exposures.
2.Most mild exposure respond to removal from the source and supportive care.
Serious toxicity most often results from hypoxemia or cardiac dysrhythmias so that oxygen, intubation, intravenous lines and cardiac monitoring should be started initially as the clinical situation dictates.
3.Ipecac syrup should be give to alert patients who ingest more than a minor amount and present within 2 hours.
4.The efficacy of activated charcoal and cathartics is unclear.
5.The metabolites, trichloracetic acid, trichlorethanol and to a lesser degree, chloral hydrate, may be detected in the urine up to 16 days postexposure.
BIOLOGICAL EXPOSURE INDEX - BEI
These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

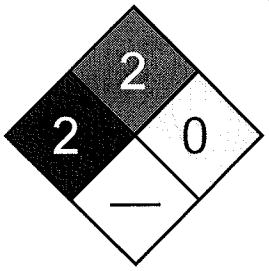
Determinant	Index	Sampling Time	Comments
Trichloroacetic acid in urine	10 mg/gm creatinine	End of work-week	NS
Trichloroacetic acid AND Trichloroethanol in urine	300 mg/mg creatinine	End of shift at end of work-week	NS
Free Trichloroethanol in blood	4 mg/L	End of shift at end of work-week	NS
Trichloroethylene in end-exhaled air			SQ
Trichloroethylene in blood			SQ

NS: Non-specific determinant; also seen after exposure to other materials
SQ: Semi-quantitative determinant - Interpretation may be ambiguous; should be used as a screening test or confirmatory test.

Section 5 - Fire-Fighting Measures

Flash Point: 32.222 °C Closed Cup
Autoignition Temperature: 420 °C
LEL: 8% v/v
UEL: 10.5% v/v
Extinguishing Media: Water spray or fog; foam, dry chemical powder, or BCF (where regulations permit).
Carbon dioxide.

See DOT ERG



Fire Diamond

General Fire Hazards/Hazardous Combustion Products: Vapor will burn when in contact with high temperature flame.
May form a flammable/explosive mixture in an oxygen enriched atmosphere. Heating may cause expansion/vaporization with violent rupture of containers. Decomposes on heating and produces corrosive fumes of hydrochloric acid, carbon monoxide and small amounts of toxic phosgene.

Fire Incompatibility: Avoid reaction with strong oxidizing agents (particularly oxygen in gas or liquid form and nitrogen dioxide), strong bases, sodium and sodium-potassium alloys. Powdered metals; magnesium, zinc and aluminum.
Contact with water may result in the slow formation of hydrochloric acid.
Attacks natural rubber.

Fire-Fighting Instructions: Contact fire department and tell them location and nature of hazard.
Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or waterways.
Use water delivered as a fine spray to control fire and cool adjacent area.
Avoid spraying water onto liquid pools.
Do not approach containers suspected to be hot.
Cool fire-exposed containers with water spray from a protected location.
If safe to do so, remove containers from path of fire.

Section 6 - Accidental Release Measures

Small Spills: Remove all ignition sources. Clean up all spills immediately.
Avoid breathing vapors and contact with skin and eyes.
Control personal contact by using protective equipment.
Contain and absorb spill with sand, earth, inert material or vermiculite.
Wipe up. Place in a suitable labeled container for waste disposal.

See DOT ERG

Large Spills: Clear area of personnel and move upwind.
Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or waterways.
Increase ventilation.
No smoking or bare lights within area.
Stop leak if safe to do so.
Contain and absorb spill with sand, earth, inert material or vermiculite.
Collect and seal in labeled drums for disposal.
If contamination of drains or waterways occurs, advise emergency services.
After clean-up operations, decontaminate and launder all protective clothing and equipment before storing and reusing.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Avoid all personal contact, including inhalation.
Wear protective clothing when risk of overexposure occurs.
Use in a well-ventilated area. Prevent concentration in hollows and sumps.
DO NOT enter confined spaces until atmosphere has been checked.
DO NOT allow material to contact humans, exposed food or food utensils.
Avoid smoking, bare lights or ignition sources. When handling, DO NOT eat, drink or smoke. Avoid contact with incompatible materials.
Keep containers securely sealed when not in used. Avoid physical damage to containers. Always wash hands with soap and water after handling. Working clothes should be laundered separately.
Launder contaminated clothing before reuse.
Observe manufacturer's storing/handling recommendations. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Recommended Storage Methods: Inhibited grades may be stored in metal drums.
DO NOT use aluminum or galvanized containers. Check that containers are clearly labeled and free from leaks.

Packaging as recommended by manufacturer.
Regulatory Requirements: Follow applicable OSHA regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Local exhaust ventilation usually required.
If risk of overexposure exists, wear NIOSH-approved respirator.
Correct fit is essential to obtain adequate protection. NIOSH-approved self contained breathing apparatus (SCBA) may be required in some situations.
Provide adequate ventilation in warehouse or closed storage area.
Personal Protective Clothing/Equipment:
Eyes: Safety glasses with side shields; chemical goggles. Full face shield.
Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
Hands/Feet: PVA gloves. Polyethylene gloves.
Viton gloves.
PVC boots.
Respiratory Protection:
Exposure Range >100 to <1000 ppm: Supplied Air, Constant Flow/Pressure Demand, Half Mask
Exposure Range 1000 to unlimited ppm: Self-contained Breathing Apparatus, Pressure Demand, Full Face
Note: odor threshold unknown
Other: Overalls. Eyewash unit. Barrier cream. Skin cleansing cream.
Glove Selection Index:

PE/EVAL/PE	Best selection
PVA	Best selection
TEFLON	Best selection
VITON	Satisfactory; may degrade after 4 hours continuous immersion
VITON/NEOPRENE	Poor to dangerous choice for other than short-term immersion
VITON/NITRILE	Poor to dangerous choice for other than short-term immersion
HYPALON	Poor to dangerous choice for other than short-term immersion
NEOPRENE	Poor to dangerous choice for other than short-term immersion
PVC	Poor to dangerous choice for other than short-term immersion
NITRILE	Poor to dangerous choice for other than short-term immersion

Section 9 - Physical and Chemical Properties

Appearance/General Info: Colorless liquid with a sweetish, chloroform-like odor, miscible with most organic solvents.
Physical State: Liquid
Odor Threshold: 10 mg/l
Vapor Pressure (kPa): 7.87 at 20 °C
Vapor Density (Air=1): 4.54
Formula Weight: 131.38
Specific Gravity (H_2O=1, at 4 °C): 1.47 at 15 °C
pH: Not applicable
pH (1% Solution): Not applicable.
Boiling Point: 87 °C (189 °F)
Freezing/Melting Point: -73 °C (-99.4 °F)
Volatile Component (% Vol): 100
Water Solubility: < 1 mg/mL at 21 °C

Section 10 - Stability and Reactivity

Stability/Polymerization/Conditions to Avoid: Decomposes in the presence of moisture to produce corrosive acid.
Product is considered stable under normal handling conditions. Hazardous polymerization will not occur.
Storage Incompatibilities: Avoid storage with strong oxidizers (particularly oxygen in gas or liquid form and nitrogen dioxide), strong bases, acetone, sodium/sodium-potassium alloys, magnesium, zinc and aluminum.
Avoid contact with water as the slow formation of hydrochloric acid results.
Attacks natural rubber.
Haloalkenes are highly reactive. Some of the more lightly substituted lower members are highly flammable; many members of the group are peroxidizable and polymerizable.

Section 11 - Toxicological Information

Toxicity
Oral (human) LD_{Lo}: 7000 mg/kg
Oral (man) TD_{Lo}: 2143 mg/kg
Oral (rat) LD_{50}: 5650 mg/kg
Inhalation (man) LC_{Lo}: 2900 ppm
Inhalation (human) TD_{Lo}: 812 mg/kg
Inhalation (human) TC_{Lo}: 6900 mg/m^3/10 m
Inhalation (man) TC_{Lo}: 2900 ppm
Inhalation (man) TC_{Lo}: 110 ppm/8h
Inhalation (man) TC_{Lo}: 160 ppm/83 m

Irritation
Skin (rabbit): 500 mg/24h - SEVERE
Eye (rabbit): 20 mg/24h - SEVERE

See *RTECS* KX 4550000, for additional data.

Section 12 - Ecological Information

Environmental Fate: No data found.
Ecotoxicity: LC_{50} Sheepshead minnow 20 mg/l/96 hr. /Conditions of bioassay not specified; LC_{50} Mexican axolotl (3-4 wk after hatching) 48 mg/l/48 hr /Conditions of bioassay not specified; LC_{50} Clawed toad (3-4 wk after hatching) 45 mg/l/48 hr /Conditions of bioassay not specified; LC_{50} Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr (95% confidence limits 31.4-71.8 mg/l) /Flow-through test; EC_{10} Pimephales promelas (fathead minnow) 15.2 mg/l/24 hr; 16.9 mg/l/48 hr; 15.5 mg/l/72 hr; 13.7 mg/l/96 hr; Toxic effect for all concentrations specified: loss of equilibrium. /Flow-through bioassay; Toxicity Threshold (Cell Multiplication Inhibition Test) Scenedesmus quadricauda(green algae) >1000 mg/l /Time not specified, conditions of bioassay not specified; Toxicity Threshold (Cell Multiplication Inhibition Test) Pseudomonas putida (bacteria) 65 mg/l ; LC_{50} Grass shrimp 2 mg/l/96 hr. /Conditions of bioassay not specified
Henry's Law Constant: 1×10^{-2}
BCF: bluegill 17 to 39
Biochemical Oxygen Demand (BOD): 0%, 20 days
Octanol/Water Partition Coefficient: $\log K_{ow} = 2.29$
Soil Sorption Partition Coefficient: $K_{oc} = 2.0$

Section 13 - Disposal Considerations

Disposal: Recycle wherever possible. Consult manufacturer for recycling options.
Follow applicable federal, state, and local regulations.
Reclaim solvent at an approved site.
Evaporate or incinerate residue at an approved site.
Recycle containers if possible, or dispose of in an authorized landfill.

Section 14 - Transport Information

DOT Hazardous Materials Table Data (49 CFR 172.101):

Shipping Name and Description: Trichloroethylene
ID: UN1710
Hazard Class: 6.1 - Poisonous materials
Packing Group: III - Minor Danger
Symbols:
Label Codes: 6.1 - Poison *or* Poison Inhalation Hazard *if inhalation hazard, Zone A or B*
Special Provisions: IB3, N36, T4, TP1
Packaging: **Exceptions:** 153 **Non-bulk:** 203 **Bulk:** 241
Quantity Limitations: **Passenger aircraft/rail:** 60 L **Cargo aircraft only:** 220 L
Vessel Stowage: **Location:** A **Other:** 40

Section 15 - Regulatory Information

EPA Regulations:
RCRA 40 CFR: Listed U228 Toxic Waste
CERCLA 40 CFR 302.4: Listed per CWA Section 311(b)(4), per RCRA Section 3001, per CWA Section 307(a) 100 lb (45.35 kg)

SARA 40 CFR 372.65: Listed
SARA EHS 40 CFR 355: Not listed
TSCA: Listed

Section 16 - Other Information

Disclaimer: Judgments as to the suitability of information herein for the purchaser's purposes are necessarily the purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, Genium Group, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purpose or for consequences of its use.

Material Safety Data Sheet Collection
Genium group inc.
1171 RiverFront Center, Amsterdam, NY 12010
(518) 842-4111

Issue Date: 2006-06

Section 1 - Chemical Product and Company Identification 61

Material Name: Perchloroethylene **CAS Number:** 127-18-4
Chemical Formula: C_2Cl_4
Structural Chemical Formula: $Cl_2C=CCl_2$
EINECS Number: 204-825-9
ACX Number: X1000034-7
Synonyms: ANKILOSTIN; ANTISAL 1; ANTISOL 1; CARBON BICHLORIDE; CARBON DICHLORIDE; CZTEROCHLOROETYLEN; DIDAKENE; DILATIN PT; DOW-PER; ENT 1,860; EPA PESTICIDE CHEMICAL CODE 078501; ETHENE,TETRACHLORO-; ETHYLENE TETRACHLORIDE; ETHYLENE,TETRACHLORO-; FEDAL-UN; NEMA; PCE; PER; PERAWIN; PERC; PERCHLOORETHYLEEN,PER; PERCHLOR; PERCHLORAETHYLEN,PER; PERCHLORETHYLENE; PERCHLORETHYLENE,PER; PERCHLOROETHYLENE; PERCLENE; PERCLENE D; PERCLOROETILENE; PERCOSOLV; PERCOSOLVE; PERK; PERKLONE; PERSEC; TETLEN; TETRACAP; TETRACHLOORETHEEN; TETRACHLORAETHEN; TETRACHLORETHYLENE; TETRACHLOROETHENE; 1,1,2,2-TETRACHLOROETHYLENE; TETRACHLOROETHYLENE; TETRACLOROETENE; TETRAGUER; TETRALENO; TETRALEX; TETRAVEC; TETROGUER; TETROPIL
General Use: Used as a drycleaning solvent, a vapor-degreasing solvent; a drying agent for metals and certain other solids. Used also as a heat transfer medium and in the manufacture of fluorocarbons.

Section 2 - Composition / Information on Ingredients

Name	CAS	%
perchloroethylene	127-18-4	100

OSHA PEL
TWA: 100 ppm; Ceiling 200 ppm; 300 ppm, 5-minute maximum peak in any 3 hours.

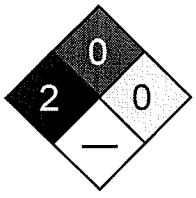
ACGIH TLV
TWA: 25 ppm; STEL: 100 ppm.

NIOSH REL
Minimize workplace exposure concentrations.

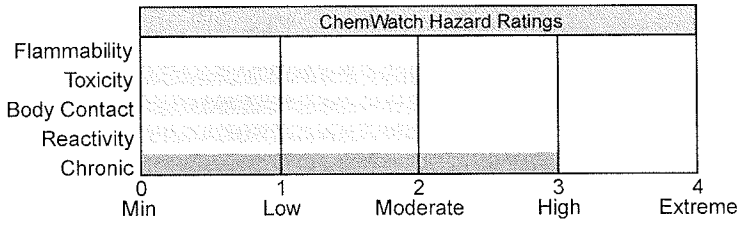
IDLH Level
150 ppm.

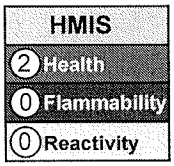
DFG (Germany) MAK
Skin.

Section 3 - Hazards Identification



Fire Diamond





ANSI Signal Word

Caution

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Colorless liquid; ether-like odor. Irritating to eyes/skin/respiratory tract. Other Acute Effects: headache, dizziness, CNS depression, incoordination, slurred speech. Chronic Effects: liver/kidney damage; possible cancer hazard (animal studies).

Potential Health Effects

Target Organs: liver, kidneys, eyes, upper respiratory system, skin, central nervous system (CNS)
Primary Entry Routes: inhalation, skin contact, eye contact

Acute Effects

Inhalation: Acute intoxication by halogenated aliphatic hydrocarbons appears to take place over two stages. Signs of a reversible narcosis are evident in the first stage and in the second stage signs of injury to organs may become evident. A single organ alone is (almost) never involved.
The vapor is highly discomforting to the upper respiratory tract and lungs.
Inhalation hazard is increased at higher temperatures.
Anesthetic and narcotic effects (with dulling of senses and odor fatigue) are a consequence of exposure to chlorinated solvents.
Individual response varies widely; odor may not be considered objectionable at levels which quickly induce central nervous system effects.
High vapor concentrations may give a feeling of euphoria. This may result in reduced responses, followed by rapid onset of unconsciousness, possible respiratory arrest and death.
Accidental high level exposure has produced lightheadedness, unconsciousness and liver and kidney damage in workers. In at least two cases such exposures were fatal. Subjects exposed to 106 ppm in laboratory studies experienced slight eye irritation; dizziness and sleepiness were reported at 216 ppm; at exposures of 280 ppm or 600 ppm for 10 minutes there was a loss of motor coordination. In another study subjects exposed for 7 hours at 101 ppm complained of eye irritation and subjective symptoms such headache, drowsiness and sleepiness.

Eye: The liquid may produce eye discomfort and is capable of causing temporary impairment of vision and/or transient eye inflammation, ulceration Eye contact may cause lachrymation (tears) and burning sensation.
The vapor is highly discomforting to the eyes.
The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

Skin: The liquid is highly discomforting to the skin if exposure is prolonged and may cause drying of the skin, which may lead to dermatitis.
Toxic effects may result from skin absorption.
Absorption by skin may readily exceed vapor inhalation exposure.
Symptoms for skin absorption are the same as for inhalation.
Bare unprotected skin should not be exposed to this material.
The material may accentuate any pre-existing skin condition.
The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic).
This form of dermatitis is often characterized by skin redness (erythema) and swelling (edema) which may progress to vesiculation, scaling and thickening of the epidermis.
Histologically there may be intercellular edema of the spongy layer (spongiosis) and intracellular edema of the epidermis.
Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.
Industrial experience shows localized skin irritation. Prolonged dermal contact can cause chemical burns and blistering.

Ingestion: Considered an unlikely route of entry in commercial/industrial environments.
The liquid is highly discomforting and toxic if swallowed and may be fatal if swallowed in large quantity.
Ingestion may result in nausea, abdominal irritation, pain and vomiting.
When used in the treatment of hookworm (4.5 to 6.5 gm orally) the only adverse effect is inebriation. Transient hepatotoxicity in patients given single oral doses of up to 5 mL have been recorded.

Carcinogenicity: NTP - Class 2B, Reasonably anticipated to be a carcinogen, sufficient evidence of carcinogenicity from studies in experimental animals; IARC - Group 2B, Possibly carcinogenic to humans; OSHA - Not listed; NIOSH - Listed as carcinogen; ACGIH - Class A3, Animal carcinogen; EPA - Not listed; MAK - Class B, Justifiably suspected of having carcinogenic potential.

Chronic Effects: Prolonged or continuous skin contact with the liquid may cause defatting with drying, cracking, irritation and dermatitis following.
Workers inhaling 232 to 385 ppm for 8 hours/day, 5 days/week for 2 to 6 years have shown abnormal hepatic function, including cirrhosis, with lightheadedness, headache, malaise and dizziness.

Section 4 - First Aid Measures

See DOT ERG

Inhalation: Remove to fresh air.
Lay patient down. Keep warm and rested.
If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. Transport to hospital or doctor.

Eye Contact: Immediately hold the eyes open and flush continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids.
Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact: Immediately remove all contaminated clothing, including footwear (after rinsing with water).
Wash affected areas thoroughly with water (and soap if available).

Seek medical attention in event of irritation.

Ingestion: Contact a Poison Control Center.

Do NOT induce vomiting. Give a glass of water.

Avoid giving milk or oils.

Avoid giving alcohol.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Treat symptomatically.

Do not administer sympathomimetic drugs as they may cause ventricular arrhythmias.

For acute or short-term repeated exposures to perchloroethylene:

Tetrachloroethylene/perchlorethylene is well absorbed through the lungs with peak levels more important than duration in determining blood concentration.

Lungs excrete most of the absorbed tetrachloroethylene in an unchanged state; about 3% is converted by the liver to form trichloracetic acid and subsequently excreted by the kidney. Exhaled material has a biological half-life of 65 hours.

INHALATION:

The treatment of acute inhalation exposures is supportive with initial attention directed to evaluation/support of ventilation and circulation.

As with all hydrocarbons care must be taken to reduce the risk of aspiration by proper positioning and medical observation.

INGESTION:

1.The ingestion level at which emesis should be induced is difficult to predict in the absence of extensive human studies.

2.The role of charcoal and cathartics remains uncertain.

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time	Comments
Perchloroethylene in end-exhaled air	10 ppm	Prior to last shift of work-week	
Perchloroethylene in Blood	1 mg/L	Prior to last shift of work-week	
Trichloroacetic acid in urine	7 mg/L	End of work-week	NS,SQ

NS: Non-specific determinant; also seen after exposure to other materials

SQ: Semi-quantitative determinant - Interpretation may be ambiguous; should be used as a screening test or confirmatory test.

Section 5 - Fire-Fighting Measures

Flash Point: Nonflammable

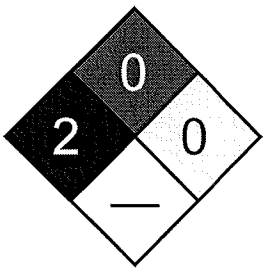
Autoignition Temperature: 490 °C

LEL: 1.8% v/v

UEL: 11.5% v/v at 740 mm Hg 160 °C

Extinguishing Media: Use extinguishing media suitable for surrounding area.

See DOT ERG



Fire Diamond

General Fire Hazards/Hazardous Combustion Products: Nonflammable liquid.

However vapor will burn when in contact with high temperature flame. Ignition ceases on removal of flame.

May form a flammable/explosive mixture in an oxygen enriched atmosphere. Heating may cause expansion/vaporization with violent rupture of containers. Decomposes on heating and produces corrosive fumes of hydrochloric acid, carbon monoxide and small amounts of toxic phosgene.

Fire Incompatibility: Avoid mixing with strong alkalis or powdered metals, particularly zinc as ignition may result.

Fire-Fighting Instructions: Contact fire department and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves for fire only. Prevent, by any means available, spillage from entering drains or waterways.

Use fire fighting procedures suitable for surrounding area.
Do not approach containers suspected to be hot.
Cool fire-exposed containers with water spray from a protected location.
If safe to do so, remove containers from path of fire.
Equipment should be thoroughly decontaminated after use.

Section 6 - Accidental Release Measures

See DOT ERG

Small Spills: Clean up all spills immediately.
Wear protective neoprene gloves and chemical goggles.
If risk of overexposure exists, wear NIOSH-approved respirator.
Wipe up and absorb small quantities with vermiculite or other absorbent material.
DO NOT discharge into sewer or waterways.
Place spilled material in clean, dry, sealable, labeled container.
Large Spills: Minor hazard. Clear area of personnel and move upwind.
Contact fire department and tell them location and nature of hazard.
Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or waterways.
No smoking, bare lights or ignition sources. Increase ventilation.
Stop leak if safe to do so. Contain spill with sand, earth or vermiculite.
Collect recoverable product into labeled containers for recycling.
Absorb remaining product with sand, earth or vermiculite.
Collect solid residues and seal in labeled drums for disposal.
Wash area and prevent runoff into drains.
If contamination of drains or waterways occurs, advise emergency services.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Avoid generating and breathing mist. Avoid all personal contact, including inhalation.
Wear protective clothing when risk of exposure occurs.
Use in a well-ventilated area. Prevent concentration in hollows and sumps.
DO NOT enter confined spaces until atmosphere has been checked.
DO NOT allow material to contact humans, exposed food or food utensils.
Avoid contact with incompatible materials.
When handling, DO NOT eat, drink or smoke.
Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately.
Launder contaminated clothing before reuse.
Use good occupational work practices. Observe manufacturer's storing and handling recommendations. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Recommended Storage Methods: Check that containers are clearly labeled. Glass container.
Heavy gauge metal packages/heavy gauge metal drums.
Avoid storage with zinc, galvanized or diecast metal (including bungs).
DO NOT use aluminum or galvanized containers.
Packaging as recommended by manufacturer.
Regulatory Requirements: Follow applicable OSHA regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build-up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear. Use in a well-ventilated area.
Local exhaust ventilation may be required for safe working, i. e. , to keep exposures below required standards; otherwise, PPE is required.
If inhalation risk exists, wear NIOSH-approved organic-vapor respirator or air supplied breathing apparatus.
Personal Protective Clothing/Equipment:
Eyes: Chemical goggles. Full face shield.
Hands/Feet: Neoprene gloves; Viton gloves.
PVA gloves.
PVC gloves.
Protective footwear.
Respiratory Protection:
Exposure Range >100 to <150 ppm: Supplied Air, Constant Flow/Pressure Demand, Half Mask
Exposure Range 150 to unlimited ppm: Self-contained Breathing Apparatus, Pressure Demand, Full Face

Note: poor warning properties

Other: Overalls. Eyewash unit. Ensure there is ready access to an emergency shower.

Glove Selection Index:

PE/EVAL/PE	Best selection
VITON/CHLOROBUTYL	Best selection
VITON/NITRILE	Best selection
VITON	Best selection
PVA	Best selection
CPE	Best selection
NITRILE	Satisfactory; may degrade after 4 hours continuous immersion
TEFLON	Satisfactory; may degrade after 4 hours continuous immersion
NITRILE+PVC	Poor to dangerous choice for other than short-term immersion
SARANEX-23 2-PLY	Poor to dangerous choice for other than short-term immersion
SARANEX-23	Poor to dangerous choice for other than short-term immersion
PVC	Poor to dangerous choice for other than short-term immersion
BUTYL	Poor to dangerous choice for other than short-term immersion
NEOPRENE	Poor to dangerous choice for other than short-term immersion

Section 9 - Physical and Chemical Properties

Appearance/General Info: Colorless liquid, with a chloroform-like odor. Extremely stable, resists hydrolysis. Miscible with alcohol, ether and oils.

Physical State: Liquid

Odor Threshold: Recognition 4.68 ppm

Vapor Pressure (kPa): 2.11 at 22 °C

Vapor Density (Air=1): 5.83

Formula Weight: 165.82

Specific Gravity (H_2O=1, at 4 °C): 1.63 at 15 °C

Evaporation Rate: 0.09 Ether=1

pH: Not applicable

pH (1% Solution): Not applicable.

Boiling Point: 121 °C (250 °F) at 760 mm Hg

Freezing/Melting Point: -19 °C (-2.2 °F)

Volatile Component (% Vol): 100

Water Solubility: 0.02% by weight

Section 10 - Stability and Reactivity

Stability/Polymerization/Conditions to Avoid: Product is considered stable and hazardous polymerization will not occur.

Storage Incompatibilities: Avoid reaction with oxidizing agents. Segregate from strong alkalis.

Haloalkenes are highly reactive. Some of the more lightly substituted lower members are highly flammable; many members of the group are peroxidizable and polymerizable.

The presenceof 0.5% trichloroethylene as an impurity caused generation of dichloroacetylene during unheated drying over solid sodium hydroxide.

Subsequent fractional distillation produced an explosion.

Section 11 - Toxicological Information

Toxicity

Oral (rat) LD_{50}: 2629 mg/kg

Inhalation (man) LD_{Lo}: 2857 mg/kg

Inhalation (human) TC_{Lo}: 96 ppm/7 hrs

Inhalation (man) TC_{Lo}: 280 ppm/2 hrs

Inhalation (man) TC_{Lo}: 600 ppm/10 min

Inhalation (rat) LC_{Lo}: 34200 mg/m^3/8 hr

Irritation

Skin (rabbit): 810 mg/24h -SEVERE

Eye (rabbit): 162 mg -mild

See *RTECS* KX 3850000, for additional data.

Section 12 - Ecological Information

Environmental Fate: If it is released to soil, it will be subject to evaporation into the atmosphere and to leaching to the groundwater. Biodegradation may be an important process in anaerobic soils based on laboratory tests with methanogenic columns. Slow biodegradation may occur in groundwater where acclimated populations of microorganisms exist. If released to water, it will be subject to rapid volatilization with estimated half-lives ranging from <1 day to several weeks. It will not be expected to significantly biodegrade, bioconcentrate in aquatic organisms or significantly adsorb to sediment. It will not be expected to significantly hydrolyze in soil or water under normal environmental conditions. If released to the atmosphere, it will exist mainly in the gas-phase and it will be subject to photooxidation with estimates of degradation time scales ranging from an approximate half-life of 2 months to complete degradation in an hour. Some in the atmosphere may be subject to washout in rain based on the solubility in water.

Ecotoxicity: LC_{50} Tanytarsus dissimilis (midge) 30, 840 ug/l/48 hr, static bioassay; LC_{50} Poecilia reticulata (guppy) 18 ppm/7 days /Conditions of bioassay not specified; LC_{50} Daphnia magna (water flea) 18 mg/l/48 hr, static bioassay, at 22 °C; LC_{50} Salmo gairdneri (rainbow trout) 5 mg/l/96 hr, static bioassay at 12 °C

Henry's Law Constant: 2.87×10^{-2}

BCF: fathead minnow 38.9

Biochemical Oxygen Demand (BOD): none

Octanol/Water Partition Coefficient: $\log K_{ow} = 3.40$

Soil Sorption Partition Coefficient: $K_{oc} = 209$

Section 13 - Disposal Considerations

Disposal: Reclaim solvent at an approved site.
Allow absorbed spillage to evaporate in an open top container, away from habitation.
Incinerate residue at an approved site.
Used containers should be left upside down with bungs out.
Return containers to drum reconditioner or recycler.

Section 14 - Transport Information

DOT Hazardous Materials Table Data (49 CFR 172.101):

Shipping Name and Description: Tetrachloroethylene
ID: UN1897
Hazard Class: 6.1 - Poisonous materials
Packing Group: III - Minor Danger
Symbols:
Label Codes: 6.1 - Poison *or* Poison Inhalation Hazard *if inhalation hazard, Zone A or B*
Special Provisions: IB3, N36, T4, TP1
Packaging: **Exceptions:** 153 **Non-bulk:** 203 **Bulk:** 241
Quantity Limitations: **Passenger aircraft/rail:** 60 L **Cargo aircraft only:** 220 L
Vessel Stowage: **Location:** A **Other:** 40

Section 15 - Regulatory Information

EPA Regulations:
RCRA 40 CFR: Listed U210 Toxic Waste
CERCLA 40 CFR 302.4: Listed per RCRA Section 3001, per CWA Section 307(a) 100 lb (45.35 kg)
SARA 40 CFR 372.65: Listed
SARA EHS 40 CFR 355: Not listed
TSCA: Listed

Section 16 - Other Information

Disclaimer: Judgments as to the suitability of information herein for the purchaser's purposes are necessarily the purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, Genium Group, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purpose or for consequences of its use.

Material Safety Data Sheet Collection
Genium group inc.
1171 RiverFront Center, Amsterdam, NY 12010
(518) 842-4111

cis-Acetylene Dichloride
DIC4550

Issue Date: 2006-06

Section 1 - Chemical Product and Company Identification 61

Material Name: cis-Acetylene Dichloride **CAS Number:** 156-59-2
Chemical Formula: $C_2H_2Cl_2$
Structural Chemical Formula: CHCl=CHCl
EINECS Number: 205-859-7
ACX Number: X1007815-0
Synonyms: ACETALYNE DICHLORIDE; CIS-ACETYLENE DICHLORIDE; CIS-1,2-DICHLORETHYLENE; CIS-1,2-DICHLOROETHENE; (Z)-1,2-DICHLOROETHYLENE; 1,2-CIS-DICHLOROETHYLENE; CIS-1,2-DICHLOROETHYLENE; CIS-DICHLOROETHYLENE; ETHENE,1,2-DICHLORO-,(Z)-; ETHYLENE,1,2-DICHLORO-,(Z)-
General Use: solvent for waxes, resins, fats, phenol, camphor, acetyl cellulose, organic materials and heat-sensitive substances such as caffeine; in rubber manufacture, as a refrigerant, as an additive to dye and lacquer solutions, in retarding fermentation, in organic synthesis, in medicines, in dye extraction, in chlorination reactions and in the manufacture of artificial pearls; a constituent of perfumes and thermoplastics

Section 2 - Composition / Information on Ingredients

Name	CAS	%
cis-acetylene dichloride	156-59-2	>98

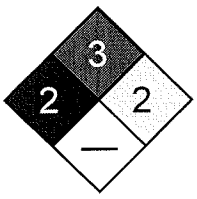
OSHA PEL
TWA: 200 ppm; 790 mg/m^3.

NIOSH REL

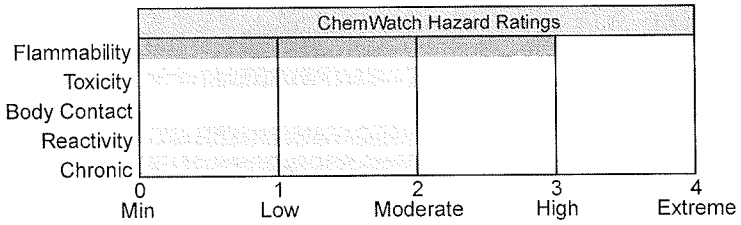
DFG (Germany) MAK
TWA: 200 ppm; PEAK: 400 ppm.

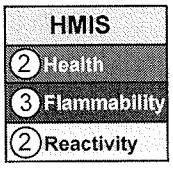
ACGIH TLV
TWA: 200 ppm.

Section 3 - Hazards Identification



Fire Diamond





ANSI Signal Word
Warning!


Flammable

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Colorless liquid; sweetish odor. Irritating to eyes/skin/respiratory tract. Harmful. Other Acute Effects: narcotic effect. Flammable.

Potential Health Effects

Target Organs: eyes, skin, respiratory system, nervous system, liver, kidneys
Primary Entry Routes: inhalation of vapor, skin/eye contact

Acute Effects

Inhalation: There is a single report of an industrial poisoning, a fatality caused by the inhalation of a vapor in a small enclosure. Acute intoxication by halogenated aliphatic hydrocarbons appears to take place over two stages. Signs of a reversible narcosis are evident in the first stage and in the second stage signs of injury to organs may become evident, a single organ alone is (almost) never involved. Depression of the central nervous system is the most outstanding effect of most halogenated aliphatic hydrocarbons. Inebriation and excitation, passing into narcosis, is a typical reaction. In severe acute exposures there is always a danger of death from respiratory failure or cardiac arrest due to a tendency to make the heart more susceptible to catecholamines (adrenalin). The most important effects of exposure are narcosis and irritation of the central nervous system. Liver responses may occur after repeated narcotic doses and involves fatty liver degeneration. Vapor exposure may produce central nervous system depression or in milder exposures, nausea, vomiting, weakness, tremor and epigastric cramps. Recovery is usually rapid.

Eye: The vapor when concentrated has pronounced eye irritation effect; this gives some warning of high vapor concentrations. If eye irritation occurs seek to reduce exposure with available control measures, or evacuate area. Exposure to the trans isomer at 2200 ppm caused burning of the eyes, vertigo, nausea. Reversible corneal clouding has been described in exposures to acetylene dichloride.

Skin: The liquid may produce skin discomfort following prolonged contact. Defatting and/ or drying of the skin may lead to dermatitis.

Ingestion: The liquid is discomforting to the gastrointestinal tract and toxic if swallowed. Considered an unlikely route of entry in commercial/industrial environments.

Carcinogenicity: NTP - Not listed; IARC - Not listed; OSHA - Not listed; NIOSH - Not listed; ACGIH - Not listed; EPA - Class D, Not classifiable as to human carcinogenicity; MAK - Not listed.

Chronic Effects: The material may accumulate in the human body and progressively cause tissue damage.

Section 4 - First Aid Measures

See DOT ERG

Inhalation: • If fumes or combustion products are inhaled, remove to fresh air.
- Lay patient down. Keep warm and rested.
- If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital or doctor.

Eye Contact: • Immediately hold the eyes open and flush continuously for at least 15 minutes with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Transport to hospital or doctor without delay.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact: • Immediately remove all contaminated clothing, including footwear (after rinsing with water).
- Wash affected areas thoroughly with water (and soap if available).
- Seek medical attention in event of irritation.

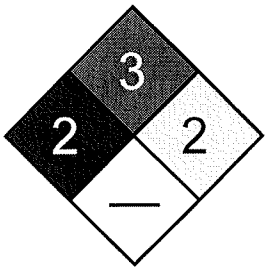
Ingestion: Contact a Poison Control Center. Do NOT induce vomiting. Give a glass of water.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Treatment should follow that practiced in carbon tetrachloride exposures:
- Acute exposures to carbon tetrachloride present, initially, with CNS depression followed by hepatic and renal dysfunction.
- Respiratory depression and cardiac dysrhythmias are an immediate threat to life.
- Since a major fraction of absorbed carbon tetrachloride is exhaled in first hour, good tidal volumes should be maintained in severely poisoned patients; hyperventilation may be an additional therapeutic modality.
- Ipecac syrup, lavage, activated charcoal or catharsis may all be used in the first 4 hours.
- Since reactive metabolites may cause hepatorenal toxicity, administration of N-acetyl-L-cysteine may reduce complications. Experience with this therapy is limited.

Section 5 - Fire-Fighting Measures

See DOT ERG



Fire Diamond

Flash Point: 2.2 to 3.9 °C Closed Cup
Autoignition Temperature: 460 °C
LEL: 9.7% v/v
UEL: 12.8% v/v
Extinguishing Media: Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide. Water spray or fog - Large fires only.
General Fire Hazards/Hazardous Combustion Products: • Liquid and vapor are highly flammable.
• Severe fire hazard when exposed to heat, flame and/or oxidizers.
• Vapor forms an explosive mixture with air.
• Severe explosion hazard, in the form of vapor, when exposed to flame or spark.
• Vapor may travel a considerable distance to source of ignition.
• Heating may cause expansion/decomposition with violent rupture of containers.
• On combustion, may emit toxic fumes of carbon monoxide (CO). Other combustion products include hydrogen chloride and phosgene.
Fire Incompatibility: Avoid contamination with oxidizing agents i.e., nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc. as ignition may result.
Fire-Fighting Instructions: • Contact fire department and tell them location and nature of hazard.
• May be violently or explosively reactive.
• Wear breathing apparatus plus protective gloves.
• Prevent, by any means available, spillage from entering drains or waterways.
• Consider evacuation (or protect in place).
• Fight fire from a safe distance, with adequate cover.
• If safe, switch off electrical equipment until vapor fire hazard removed.
• Use water delivered as a fine spray to control the fire and cool adjacent area.
• Avoid spraying water onto liquid pools.
• Do not approach containers suspected to be hot.
• Cool fire-exposed containers with water spray from a protected location.
• If safe to do so, remove containers from path of fire.

Section 6 - Accidental Release Measures

See DOT ERG

Small Spills: • Remove all ignition sources.
• Clean up all spills immediately.
• Avoid breathing vapors and contact with skin and eyes.
• Control personal contact by using protective equipment.
• Contain and absorb small quantities with vermiculite or other absorbent material.
• Wipe up.
• Collect residues in a flammable waste container.
Large Spills: • Clear area of personnel and move upwind.
• Contact fire department and tell them location and nature of hazard.
• May be violently or explosively reactive.
• Wear breathing apparatus plus protective gloves.
• Prevent, by any means available, spillage from entering drains or waterways.
• No smoking, bare lights or ignition sources.
• Increase ventilation.
• Stop leak if safe to do so.
• Water spray or fog may be used to disperse/absorb vapor.
• Contain spill with sand, earth or vermiculite.
• Use only spark-free shovels and explosion proof equipment.
• Collect recoverable product into labeled containers for recycling.
• Absorb remaining product with sand, earth or vermiculite.
• Collect solid residues and seal in labeled drums for disposal.
• Wash area and prevent runoff into drains.
• If contamination of drains or waterways occurs, advise emergency services.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: • Avoid all personal contact, including inhalation.
• Wear protective clothing when risk of exposure occurs.
• Use in a well-ventilated area.
• Prevent concentration in hollows and sumps.

- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, bare lights or ignition sources.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Follow good occupational work practices.
- Observe manufacturer's storage and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

Recommended Storage Methods: Check that containers are clearly labeled. Packaging as recommended by manufacturer. DO NOT use aluminum or galvanized containers.

Regulatory Requirements: Follow applicable OSHA regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Local exhaust ventilation usually required. If risk of overexposure exists, wear NIOSH-approved respirator. Provide adequate ventilation in warehouse or closed storage area.

Personal Protective Clothing/Equipment:

Eyes: Safety glasses with side shields or, as required, chemical goggles. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

Hands/Feet: Butyl rubber gloves. Neoprene gloves.

Respiratory Protection: Respirator protection may be required. Consult your supervisor.

Other:
- Overalls.
- Barrier cream.
- Eyewash unit.

Glove Selection Index:

VITON ..... Poor to dangerous choice for other than short-term immersion

Section 9 - Physical and Chemical Properties

Appearance/General Info: Colorless liquid with pleasant chloroform-like odor.

Physical State: colorless liquid

Odor Threshold: 0.085 ppm

Vapor Pressure (kPa): 200 mm Hg at 25 °C

Vapor Density (Air=1): 3.34

Formula Weight: 96.94

Specific Gravity (H_2O=1, at 4 °C): 1.2837 at 20 °C/4 °C

Boiling Point: 60.3 °C (141 °F) at 760 mm Hg

Freezing/Melting Point: -80.5 °C (-112.9 °F)

Water Solubility: 1 to 5 mg/mL at 16 °C

Section 10 - Stability and Reactivity

Stability/Polymerization/Conditions to Avoid: Product is considered stable. Hazardous polymerization will not occur.

Storage Incompatibilities: Avoid reaction with oxidizing agents. Acetylene dichloride in contact with solid caustic alkalies or their concentrated solutions will form chloracetylene which ignites in air. Haloalkenes are highly reactive.

Section 11 - Toxicological Information

Toxicity

Inhalation (mouse) LC_{Lo}: 65000 mg/m^3/2 hr

Rat liver cell mutagen in vitro

Irritation

Nil reported

See *RTECS* KV9420000, for additional data.

Section 12 - Ecological Information

Environmental Fate: If released on soil, it should evaporate and/or leach into the groundwater where very slow biodegradation should occur. If released into water, it will be lost mainly through volatilization (half life 3 hr in a model river). Biodegradation, adsorption to sediment, and bioconcentration in aquatic organisms should not be significant. In the atmosphere it will be lost by reaction with photochemically produced hydroxyl radicals (half life 8 days) and scavenged by rain. Because it is relatively long lived in the atmosphere, considerable dispersal from source areas should occur.

Ecotoxicity: LC_{50} Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr in a static unmeasured bioassay

Henry's Law Constant: estimated at 0.00337

BCF: calculated at 15
Octanol/Water Partition Coefficient: log K_{ow} = 1.86
Soil Sorption Partition Coefficient: K_{oc} = 49

Section 13 - Disposal Considerations

Disposal: • Consult manufacturer for recycling options and recycle where possible.
• Follow applicable local, state, and federal regulations.
• Incinerate residue at an approved site.
• Recycle containers if possible, or dispose of in an authorized landfill.

Section 14 - Transport Information

DOT Hazardous Materials Table Data (49 CFR 172.101):

Shipping Name and Description: 1,2-Dichloroethylene
ID: UN1150
Hazard Class: 3 - Flammable and combustible liquid
Packing Group: II - Medium Danger
Symbols:
Label Codes: 3 - Flammable Liquid
Special Provisions: IB2, T7, TP2
Packaging: **Exceptions:** 150 **Non-bulk:** 202 **Bulk:** 242
Quantity Limitations: **Passenger aircraft/rail:** 5 L **Cargo aircraft only:** 60 L
Vessel Stowage: **Location:** B **Other:**

Section 15 - Regulatory Information

EPA Regulations:
RCRA 40 CFR: Not listed
CERCLA 40 CFR 302.4: Not listed
SARA 40 CFR 372.65: Not listed
SARA EHS 40 CFR 355: Not listed
TSCA: Listed

Section 16 - Other Information

Disclaimer: Judgments as to the suitability of information herein for the purchaser's purposes are necessarily the purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, Genium Group, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purpose or for consequences of its use.