



# Far Rockaway Former MGP Site

Preliminary Site Assessment Report  
Order on Consent D1-0001-99-05  
NYSDEC Site No. 2-41-032

**Far Rockaway, Borough of Queens, New York**  
March 2003

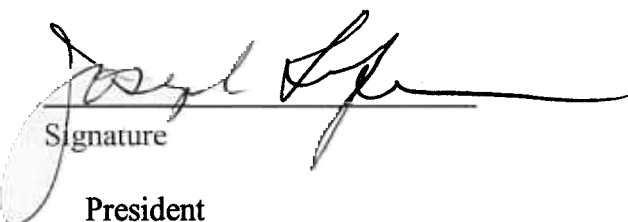
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## CERTIFICATION

The following certification is required as prescribed in Order on Consent, Index Number D1-0001-99-05.

I Joseph Lifrieri responsible for the day to day performance of the field investigation program for the Far Rockaway Former MGP site (NYSDECs item number 2-41-032) certify that the work was performed in accordance with the approved Preliminary Site Assessment Work Plan, dated April 2002, and that any deviations from this work plan an were pre-approved by NYSDEC.

  
Signature

President  
Title

April 9, 2003  
Date

April 9, 2003  
2522-006-034

Mr. Joseph White  
Environmental Engineer II  
New York State Department of Environmental Conservation  
Bureau of Hazardous Site Control  
Division of Environmental Remediation  
625 Broadway, 11<sup>th</sup> Floor  
Albany, New York 12233-7014

Re: Final Preliminary Site Assessment Report  
Order of Consent D1-0001-99-05  
Site #2-41-032  
Far Rockaway Former MGP Site  
Far Rockaway, New York

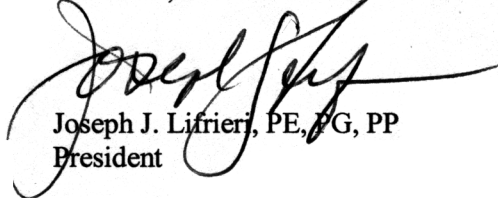
Dear Mr. White:

Paulus, Sokolowski and Sartor Engineering, PC (PS&SPC) is pleased to present this Final Preliminary Site Assessment (PSA) report regarding the investigation conducted at the Far Rockaway Former Manufactured Gas Plant (MGP) site. One hard copy and four electronic copies of the report package is enclosed for your review.

If you have any questions or would like to discuss these issues further do not hesitate to contact me, or John Pastorick at 732-560-9700 extension 228.

Very truly yours,

PAULUS, SOKOLOWSKI & SARTOR ENGINEERING, PC



Joseph J. Lifrieri, PE, PG, PP  
President

cc: Walter Parish, NYSDEC, SUNY, One report  
Wendy Kuehner, NYSDOH-BEEL, Two reports and one CD  
Larry Liebs, Keyspan, One CD  
Frank Murphy, Keyspan, One CD

# **PRELIMINARY SITE ASSESSMENT REPORT**

*Regarding the:*

**FAR ROCKAWAY FORMER MGP SITE  
1200-1224 Brunswick Avenue  
Section 59/Block 15529/Lots 102, 105, 110 and 115  
Far Rockaway, New York**

*Prepared for:*

**KEYSPAN CORPORATE SERVICES, LLC  
One Metro Tech Center  
Brooklyn, New York**

**March 2003**

*Prepared by:*



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## **EXECUTIVE SUMMARY**

Paulus, Sokolowski and Sartor Engineering, PC (PS&S ENG PC) is pleased to submit this Preliminary Site Assessment (PSA) report pursuant to Order On Consent # D1-001-99-05 entered into by KeySpan Corporate Service, LLC (KeySpan) and the New York State Department of Environmental Conservation (NYSDEC), dated September 30, 1999, for the Far Rockaway Former Manufactured Gas Plant (MGP) site located on the north side of Brunswick Avenue between B12th Street and Minton Avenue. The Project Site is also known as 1200 - 1224 Brunswick Avenue (Section 59/Block 15529/Lots 102, 105, 110 and 115). The subject site is not currently owned or operated by KeySpan.

This investigation was predicated upon a New York State Department of Environmental Conservation (NYSDEC) approved PSA Workplan prepared by Vanasee Hantgen & Brustlin, Inc. The PSA Workplan also contained a Quality Assurance Project Plan (QAPP) which was utilized during implementation of the investigation. The PSA was completed during one phase which consisted of a records review, site reconnaissance and a soil, soil vapor and groundwater sampling program.

Based on the information compiled for the subject site, it appears that the general area of the site contains historic fill placed at some point within the last 75+ years to raise the elevation of the land to a usable level. The site has been actively used as office and warehousing space since the cessation of MGP-related operations in 1909. The results of the field investigation confirmed the presence of fill materials (i.e., miscellaneous fill consisting of sand, gravel, metal, glass, cinders, concrete and other debris) throughout the site area containing certain Resource Conservation and Recovery Act (RCRA) Metals and Target Analyte Metals and Volatile Organic compounds, Semi-Volatile Organic compounds, Polychlorinated Biphenyls and Cyanide. During the excavation of a test trench, the former gas holder foundation pad was encountered at a depth of four feet below the surface grade. This was the only potential MGP-related structure that was encountered and/or discovered during the implementation of the field sampling program.

Analysis of groundwater samples obtained through low-flow sampling of the temporary monitoring wells, installed at the site, indicated the presence of certain RCRA Metals and Target Analyte Metals, Volatile Organic compounds, Semi-Volatile Organic compounds, Polychlorinated Biphenyls and Cyanide in the groundwater.

Six sampling locations situated on and adjacent to the Long Island Railroad (LIRR) property were not conducted as outlined in the PSA Workplan. These sample locations (as shown on Figures 4 and 5) were soil borings FRSB-05, FRSB-06 and FRSB-07; surface sample FRSS-10; soil vapor sample FRSV-05 and groundwater sample FRGW-04. During and after the implementation of the field sampling program, KeySpan was informed by LIRR that it would not be able to grant access to perform the sampling on its property. As a result, no field duplicate samples were collected for the soil borings as the duplicates were scheduled to be obtained from those soil borings located on the LIRR property. Additionally, soil boring FRSB-11, groundwater sample point FRGW-07 and soil vapor sample FRSV-02 were relocated from the sidewalk in front of 1224 Brunswick Avenue onto Brunswick Avenue.

## **1.0     INTRODUCTION**

Paulus, Sokolowski and Sartor Engineering, PC (PS&S ENG, PC), at the request of KeySpan Corporate Services, LLC (KeySpan) and in compliance with the New York State Department of Environmental Conservation (NYSDEC) Order on Consent #D1-0001-99-05, conducted a Preliminary Site Assessment (PSA) of three (3) parcels of land containing three (3) two-story buildings located at 1200-1224 Brunswick Avenue, Far Rockaway, Queens County, New York (Figure 1). The work for this site was performed by professionals of Paulus, Sokolowski and Sartor, LLC (PS&S)/KeySpan Business Solutions under the responsible charge of appropriately licensed professionals of PS&S ENG PC. The subject site is also identified as Section 59/Block 15529/Lots 102, 105, 110 and 115 according to the Far Rockaway Tax Department. The subject site comprises approximately one-acre of land in a mixed industrial and residential area. At the time the site operated as a Manufactured Gas Plant (MGP) site, only the center building (1216 Brunswick Avenue) existed. According to reviewed documentation, the original building was constructed in approximately 1900 and housed a MGP until approximately 1909. The site is currently utilized by three separate tenants for warehousing, shipping and distribution operations.

The information contained within this PSA includes historical site data supplied to PS&S by KeySpan and information gathered during the records review process and field investigation. Specifically, the information supplied to PS&S by KeySpan consisted of the Order On Consent, Initial Data Submittal and the NYSDEC approved PSA Workplan, including a Quality Assurance Project Plan (QAPP). The field investigation consisted of soil, groundwater and soil vapor sampling and analysis and was predicated on an NYSDEC approved PSA workplan prepared by Vanasse Hantgen Brustlin, Inc. (VHB) and dated April 2002.

This PSA Report is subdivided into three sections; Records Review; Soil, Groundwater and Soil Vapor Sampling; and Soil, Groundwater and Soil Vapor Laboratory Analysis.



## **1.1 Site Overview**

The subject parcel (1200-1224 Brunswick Avenue, Section 59/Block 15529/Lots 102, 105, 110 and 115) is approximately one acre in size and contains three two-story buildings, which house warehousing and office space, as well as paved parking and landscaped areas. The site is situated at latitude 40° 36' 35.78"N and longitude 74° 44' 57.92"W. Figure 2 depicts the general site layout. The building is serviced by public utilities, including electric, water, sewer and natural gas.

Generally to the north of the facility is the Long Island RailRoad (LIRR) railway, beyond which are commercial buildings. To the east and south is residential housing. To the west are commercial buildings.

## **2.0     RECORDS REVIEW**

### **2.1     Historical Information**

According to reviewed information a “gas works” operated at the site between 1900 and 1909. The property was owned by the Hempstead Gas and Electric Light Company from 1900 to 1902. In 1902 the operations of the facility was transferred to Queensborough Gas and Electric Company, at which time the two entities consolidated. Subsequently in 1923 the Long Island Lighting Company (LILCO) acquired control of Queensborough Gas and Electric Company via stock purchase.

Following cessation of operations of the MGP, the site was utilized as office space by LILCO and the Queensborough Gas and Electric Company. At the time the site operated as an MGP facility, there were several structures associated with the MGP operations; a 75,000 cubic foot gas holder, coal bins, a gas generator and a purifier.

Review of available on-line documents at the New York City Department of Buildings website indicated several alterations of the property located at 1200 Brunswick Avenue in 1911, 1973 and 1981. A demolition activity is listed for the year 1963 which indicated the demolition of three sheds on the property. Lastly there is an indication of the construction of new buildings in 1912 and 1971. The records indicate an alteration to the building located at 1216 Brunswick Avenue in 1970 no other information was available regarding building construction for this address. The only information available for 1224 Brunswick Avenue was a violation for not obtaining a building permit for the installation of roof-top air conditioning units.

Based on review of these documents and comparison with Sanborn Maps (Section 2.3) it would appear that the building at 1200 Brunswick Avenue was constructed in approximately 1971.

## **2.2     Aerial Photograph Interpretation**

Aerial photographs depicting the subject site during the years 1954, 1966, 1974, 1984 and 1994 were reviewed by PS&S. All of the aerial photographs depict the site as it generally appears today. Copies of the Aerial Photographs are enclosed in Appendix A.

## **2.3     Sanborn Map Interpretation**

Sanborn Fire Insurance Maps depicting the subject site were reviewed for the years 1901, 1912, 1933, 1951, 1981, 1982, 1983, 1985, 1986, 1987, 1988, 1990, 1991, 1992, 1993, 1995 and 1996. Copies of the Sanborn Maps are enclosed in Appendix B. The 1901 map depicts the property as being operated by the Hempstead Gas and Electric Company. The features depicted on the map are a gas holder and the original building. The labeling of site features is blurred and therefore difficult to distinguish. The 1912 map depicts the property as being operated by the Queensborough Gas and Electric Company. The map depicts the same features as the 1901 map with the exception that a new building is shown on the eastern side of the property along B12th Street.

The 1933 and 1951 maps depict the property as being operated by the Queensborough Gas and Electric Company. The maps depict the same features as the 1912 map with the exception of the expansion of the original building, plus the construction of the western-most building currently located on the property along Brunswick Avenue. The map also depicts a gasoline tank on the eastern side of this building, although it does not indicate whether it is an aboveground or underground storage tank. The 1981 map no longer shows any of the MGP-related features nor the gasoline tank. Additionally, it would appear that the gas holder was demolished between 1950 and 1980 as it is not present on the 1981 Sanborn Map and is present on the 1951 map. The map generally depicts the site as it appears today. The remainder of the Sanborn Maps are similar to the 1981 map.

## **2.4     Known Discharges**

PS&S made inquiries, via certified mail and/or by telephone, of the NYSDEC, the United States Environmental Protection Agency (USEPA), the Far Rockaway District Manager, the Far Rockaway Fire Department, and the Far Rockaway Health Department, requesting information concerning records of any storage, disposal, spills or releases of hazardous substances requiring environmental response action on, or adjacent to, the subject site.

Copies of PS&S letters of inquiry to the local, state and federal agencies are presented in Appendix C. Copies of response letters received to date from the agencies are also contained in Appendix C. PS&S also utilized a commercial environmental information service to obtain data regarding state and federal environmental program records including the Federal NPL list, Federal CERCLIS list, Federal RCRA Treatment, Storage, and Disposal (TSD) facilities, Federal RCRA generator list, Federal Emergency Response Notification System (ERNS) list, State list of hazardous waste sites, State landfill/solid waste disposal site lists, State Leaking Tanks list and State Registered Tanks list. The data obtained from Environmental Data Resources (EDR), is contained in Appendix D. Information provided in letters received to date or obtained through telephone conversations is summarized below. Response letters received subsequent to this report will be forwarded upon receipt.

#### Far Rockaway District Manager

In response to its December 19, 2002 inquiry, PS&S contacted, by telephone, the Far Rockaway District Manager's office who indicated that they have no records of any spills or releases of hazardous substances and no record of underground storage tanks. The District Manager's office then directed PS&S ENG PC to the Long Island Power Authority (LIPA). LIPA also indicated that it had no records regarding the subject site.

#### Far Rockaway Health Department

To date, PS&S has not received any correspondence from the Health Department in response

to the December 19, 2002 inquiry.

#### Far Rockaway Fire Department

A telephone discussion with the Far Rockaway Fire Department revealed that it has no records regarding the subject site.

#### New York State Department of Environmental Conservation (NYSDEC)

On December 19, 2002, PS&S submitted an electronic request to the Freedom of Information (FOI) office of the NYSDEC requesting any information they may have relating to spills, disposal, storage or releases of hazardous substances on or adjacent to the subject property. On December 31, 2002, PS&S received correspondence from NYSDEC indicating that it had received our request and that it was being forwarded to the FOI Law Coordinator in the Environmental Remediation Department. PS&S subsequently received a telephone call from the NYSDEC in which it was indicated that the only files maintained by NYSDEC for the subject site were those that had been submitted to NYSDEC by KeySpan. Those were the same documents used in the preparation of this PSA.

#### United States Environmental Protection Agency (USEPA)

On January 7, 2003, PS&S received a response to its inquiry from the USEPA indicating that it has no RCRA information for the subject or adjacent sites.

### **2.5 EDR Regulatory Agency Database Search**

PS&S also utilized the services of Environmental Data Resources (EDR), of Southport, Connecticut. EDR maintains computer files of federal and state regulatory agency databases



pertaining to actual and potential hazardous waste sites.

Information pertaining to potential and actual hazardous waste sites obtained from EDR is included in Appendix D. This material is accumulated by EDR from publicly available and other secondary sources of information. Sites included on any of the database lists and sufficiently described to be accurately located by EDR within the search area for the individual data file (primary sites), are also plotted by EDR on an area map, enclosed in Appendix D.

The subject site was not identified on the EDR search of primary sites although it was listed on the secondary search of unplottable sites. The site was only identified as the Hempstead Gas & Electric Light Company on the Coal Gas sites list. No further information was available regarding this site in the EDR search. The EDR database search identified forty-five (45) other primary sites within the designated search radii. These sites ranged in distance from 0.005 mile to 1.0 mile from the subject site. These sites consisted of seven sites containing registered underground storage tanks (UST), two sites listed as Resource Conservation and Recovery Information System-Small Quantity Generators (RCRIS-SG), twenty-seven sites listed as having leaking storage tank incident reports (LTANKS), two sites listed on the Major Oil Storage Facilities Database (MOSF UST), one (1) site on the Registered Waste Tire and Storage Facility List (SWTIRE), two sites listed on the Major Oil Storage Facilities Database (MOSF AST) and three sites listed on the New York Spills list (SPILLS).

There were a total of thirty-one secondary sites identified. These sites consisted of one (1) UST site; two LTANKS sites; twenty SPILLS sites; four FINDS sites; two sites listed on the Emergency Response Notification System list (ERNS); four RCRIS-SG sites; one site listed as having a Voluntary Cleanup Agreement (VCP); one site listed as a Registered Recycling Facility (SWRCY); and one Coal Gas site, the Hempstead Gas & Electric Light Company as referenced above.

## **2.6     Remediation Activities**

During the course of this investigation, PS&S found no information regarding prior investigation or remediation activities performed at the subject site. PS&S made inquiries to the USEPA and the NYSDEC regarding any environmental remediation activities at the site.

To date, PS&S has received correspondence from the NYSDEC and USEPA indicating that it has no records regarding remedial activities conducted at the subject site. PS&S also received correspondence from the USEPA indicating that it had no RCRA information regarding the subject site or adjacent properties.

## **2.7     Environmental Sampling Data**

PS&S identified no additional areas of environmental concern as part of this Records Review, beyond what was outlined in the Preliminary Site Assessment Workplan and other data information previously provided by KeySpan.

## **2.8     Federal, State, and Local Environmental Permits**

During the course of the Records Review, PS&S found no information regarding any permits relating to the subject site. PS&S made inquiries to the USEPA and the NYSDEC regarding any permits at the site. To date, PS&S received correspondence from the NYSDEC indicating that it has no permits related to the subject site. PS&S also received correspondence from the USEPA indicating that it has no RCRA information for the subject site or adjacent properties.

## **2.9     Administrative, Civil, Criminal Enforcement Actions**

During the course of this Records Review, PS&S found no information regarding any enforcement actions relating to the subject site. PS&S made inquiries to the USEPA, the NYSDEC, and local agencies regarding any spills, discharges or releases of hazardous substances at the site. To date, PS&S received correspondence from the NYSDEC indicating that it has no records of any actions regarding the subject site. PS&S also received correspondence from the USEPA indicating that it has no RCRA information for the subject site or adjacent properties.

## **2.10 Site Reconnaissance**

A PS&S representative conducted a visual environmental reconnaissance of the subject site on October 23, 2002. The PS&S representative met with representatives of KeySpan Energy. The property currently contains three two-story masonry buildings. This center building, formerly utilized as an MGP site, has since been renovated into office and warehousing space.

The buildings consist of a two-level office and warehousing. Along the Brunswick Avenue frontage there are several bay doors and loading docks on the western and eastern ends of the building. Based on a reconnaissance of the exterior of the buildings, no additional areas of concern were identified. The western-most portion of the property is landscaped in the area where the former gas holder was situated. The remainder of the property is covered by either asphalt parking lots and concrete sidewalks.

### **3.0 SITE INVESTIGATION**

A Site Investigation (SI) consisting of a soil, groundwater and soil vapor sampling and analysis program was conducted in accordance with the NYSDEC approved PSA Workplan, dated April 2002 prepared by Vanasse Hangen Brustlin, Inc. Soil samples were obtained for laboratory analysis from eight soil boring locations, fourteen surface soil sample locations and one test trench. At seven of the eight soil boring locations a temporary one-inch diameter monitoring well was installed to obtain groundwater samples for laboratory analysis. Four soil vapor samples were also collected for laboratory analysis.

The site plans presented in this report were prepared based on a field survey performed by PS&S. The site plan includes building locations, sampling locations, and sampling point elevations. Figure 3 presents the topographical survey plan, prepared by Robinson Aerial Surveys. Figure 4 presents the locations and elevations of the soil borings, surface soil samples, soil vapor and temporary monitoring wells. Figure 5 presents a plan which indicates a general groundwater flow direction to the northwest. Table 1 provides an analytical sample summary of the sample numbers, associated depths, matrix and laboratory analysis.

There were several variations from the approved PSA Workplan which are discussed within the context of this report. The PSA Workplan denoted soil and groundwater sample analysis for the presence of benzene, toluene, ethylbenzene and xylenes (BTEX), as previously approved by the NYSDEC. This was subsequently changed to volatile organic compounds plus a fifteen-peak library search (VOC+15). Analysis of polycyclic aromatic hydrocarbons (PAHs) was subsequently changed to base neutral organic compounds plus a fifteen-peak library search (BN+15), as previously approved by the NYSDEC. In addition, the use of polyethylene tubing during the soil vapor sampling program noted in the PSA Workplan was changed to teflon-lined polyethylene tubing.

### **3.1 Soil Boring and Sampling Program**

The soil boring sampling program was conducted between December 2 and 5, 2002. The soil borings were advanced utilizing a GeoProbe with four-foot MacroCores. A total of eight soil borings were advanced and two soil samples were obtained from each soil boring. Soil Borings FRSB-01, FRSB-02 and FRSB-03 and FRSB-04 were advanced at the western portion of the site in the area of the former gas holder. FRSB-08 was advanced at the eastern end of the property. FRSB-09 and FRSB-10 were advanced in front of the center building which formerly housed the coal bin storage, gas generator and purifier. FRSB-11 was installed in the street between the former gas holder and the storage building.

Soil samples obtained from the upper interval of a boring are designated by the boring number and the letter "A". Soil samples obtained from the deeper depth interval are designated by the boring number and the letter "B". Soil borings FRSB-05, FRSB-06 and FRSB-07 were not performed as they were located along the LIRR property where site access was never granted by the LIRR. Matrix Spike and Matrix Spike Duplicate samples were collected from sample FRSB-09B.

The soils typically encountered on the subject site consisted of fine to medium sand with some silt and gravel. In some of the borings, a fill material consisting of brick, glass, concrete and metal was encountered. In one of the soil borings (FRSB-04) an ash and cinder layer was encountered at approximately two to six feet below grade. Groundwater was encountered at depths ranging from four to eight feet below surface grade. Copies of the soil boring logs are contained in Appendix E.

Soils collected in the MacroCore samplers were field-screened with a photoionization detector (PID) for the presence of organic vapors upon removal from the sampler. Field-screening readings are recorded on the boring logs. Elevated field PID readings, soil staining and strong odors were encountered in soil borings FRSB-01, FRSB-03 and FRSB-



04. Refer to the soil boring logs contained in Appendix E for the associated PID readings and depths. A discussion of the analytical laboratory results for the samples collected from these borings is included in Section 4.1.

### **3.2 Surface Soil Sampling Program**

The surface soil sampling program was conducted between December 2 and 5, 2002. The surface samples were collected from the 0 to 2 inch depth interval below any impervious layer (i.e., concrete, asphalt, grass, etc.) utilizing a disposable polyethylene trowel. A total of 14 surface soil samples were collected and were identified as FRSS-01 through FRSS-09 and FRSS-11 through FRSS-14. Sample FRSS-15 is a field duplicate of FRSS-13. Matrix Spike and Matrix Spike Duplicate samples were collected from sample FRSS-01. FRSS-10 was not performed as it was located on the LIRR property, where site access was never granted by the LIRR.

Surface samples FRSS-01 through FRSS-09 were collected from the western portion of the property, where the gas holder was formerly located. FRSS-11 through FRSS-14 were collected on the east side of B12th Street and the south side of Brunswick Avenue to determine if former MGP operations had impacted surface soils in the immediate vicinity of the subject site. Soils were field-screened with a photoionization detector (PID) for the presence of organic vapors upon removal from the sampler. No elevated field PID readings, soil staining or odors were encountered in any of the surface samples. A discussion of the analytical laboratory results for the samples collected from these surface samples is included in Section 4.2.

### **3.3     Test Trench**

A test trench was excavated on December 4, 2002 in the reported area of the former gas holder utilizing a Bobcat backhoe equipped with a trenching bucket. The soils encountered in this test trench consisted of topsoil and stone underlain by a brown fine to coarse sand with silt and fill material consisting of brick, concrete, glass and wire to a depth of two feet below grade. At the two foot to three foot interval below surface grade a layer of ashes and cinders was encountered which was underlain by an orange fine to coarse sand with silt and cobbles. At four feet below grade the foundation slab of the former gas holder was encountered. It was approximately four inches thick and was underlain by eight-inches of three to six-inch stone, underlain by orange brown fine to coarse sand with trace amounts of silt.

Four subsurface soil samples were collected from within the test trench and are identified as FRTT-01 through FRTT-04. Sample FRTT-04 is a field duplicate of FRTT-01. Sample FRTT-01 and FRTT-04 were collected at the north end of the trench below the foundation pad and subbase, FRTT-03 was collected from the western end of the trench and FRTT-02 was collected from the ash and cinder layer. The collected samples and soils contained within the trench excavation were field-screened with a photoionization detector (PID) for the presence of organic vapors. No elevated field PID readings, soil staining and/or strong odors were encountered in any of the test trench samples or within the test trench. A copy of the test trench log with the associated PID reading and depths is enclosed in Appendix E. A discussion of the analytical laboratory results for the samples collected from the test trench is presented in Section 4.3.

### **3.4     Soil Vapor Sampling Program**

The soil vapor sampling program was conducted between December 2 and 5, 2002. The soil vapor probes were advanced by driving a stainless steel hollow point equipped with teflon-lined polyethylene tubing into the vadose zone, a depth of approximately three feet below surface grade. A total of four soil vapor points, identified as FRSV-01 through FRSV-04, were advanced and one sample was obtained from each vapor point.

Soil vapor samples were obtained by initially purging the sample tube with a vacuum pump to achieve a constant flow of vapor through the tubing. Following purging of the sample tubing, an initial PID reading was obtained. Following purging and the PID reading, a SUMMA canister equipped with a regulator calibrated for a one-hour sample duration was connected to the tubing. PID readings and actual sample times were recorded on the samples records enclosed in Appendix F. FRSV-05 was not performed as it was located on the LIRR property where site access was never granted by the LIRR. No Matrix Spike and Matrix Spike Duplicate samples were collected. Sample FRSV-06 was a field duplicate of sample FRSV-04.

### **3.5 Groundwater Sampling Program**

Six temporary groundwater monitoring wells (FRGW-01 through FRGW-03 and FRGW-05 though FRGW-07) were installed and developed between December 2 and 5, 2002. The wells were subsequently sampled on December 12, 2002. Table 1 identifies the soil boring at which each groundwater monitoring well was installed. FRGW-04 was not performed as it was located on the LIRR property where site access was never granted by the LIRR. Matrix Spike and Matrix Spike Duplicate samples were collected from sample FRGW-03. Sample FRGW-08 is a field duplicate sample of FRGW-06.

The monitoring wells were constructed of a five foot long section of a prepack well screen and a casing riser of one-inch schedule 40 polyvinyl chloride (PVC). All of the monitoring wells were finished as flush-mount installations with an interior locking cap. Following

installation of the monitoring wells, they were developed until a turbid-free discharge was obtained. The wells were subsequently sampled a week following the installation of the last well. All of the wells were sampled utilizing the “Low-Flow@sampling procedure. Each well was purged utilizing a peristaltic pump, at a flow rate equal to or less than 0.25 gallons per minute (gpm). When all of the water quality indicator parameters stabilized, the analytical sample was collected from the discharge. The sample for volatile organic analysis was collected utilizing a disposable bailer. Refer to Section 3.5 for presentation of the analytical laboratory results. Copies of the well purge and sampling forms have been included in Appendix G.

### **3.6 Quality Assurance/Quality Control (QA/QC) Program**

The following QA/QC program was implemented at the subject site. The sampling was performed in accordance with NYSDEC protocols and the approved Quality Assurance Project Plan (QAPP).

Prior to commencement of sampling operations and between each analytical sampling interval, the GeoProbe drill rods were decontaminated using accepted decontamination protocols as outlined in the NYSDEC approved QAPP. The MacroCore samplers were equipped with new disposable acetate liners which were changed following the acquisition of each sample. The sampling trowels utilized were disposable polyethylene and were changed following the acquisition of each sample. The soil vapor probes and tubing utilized were new and dedicated to each soil vapor sampling location. The groundwater monitoring wells were sampled utilizing dedicated polyethylene tubing and disposable bailers. During the sampling operations, the PS&S representative wore disposable gloves which were changed following acquisition of each analytical sample to prevent cross-contamination between sampling locations. Any field sampling equipment that was not disposable and/or dedicated was decontaminated in the following manner.

1. Thorough scrub and washing with non-phosphate detergent and tap water wash;

2. Tap water rinse;
3. Distilled/deionized water rinse;
4. 10% nitric acid rinse;
5. Distilled/deionized water rinse;
6. Methanol rinse;
7. Air dry; and
8. Distilled/deionized water rinse.

A field blank was obtained for each day of sampling from a decontaminated sampler. The field blank was prepared by pouring distilled/deionized water, provided by the analytical laboratory, over the inner surface of the sampler and directly into laboratory-supplied sample containers. Field blanks are prepared as a check of the procedures used to decontaminate the sampling apparatus. The field blank was handled and transported in the same manner as the samples obtained from the borings. A trip blank was included in each cooler containing collected samples for laboratory analysis and was analyzed for VO+15.

All samples for laboratory analysis were collected in laboratory-provided glass containers fitted with Teflon seals, placed in an iced cooler, and relinquished to Hampton-Clarke Veritech Laboratories, Inc. under standard chain-of-custody documentation. Hampton-Clarke Veritech Laboratories, Inc. is a New York ELAP certified laboratory. The soil vapor samples were relinquished to and analyzed by CON-TEST Analytical Laboratory, which is a New York ELAP certified laboratory.

Review of the laboratory QA/QC data indicated the laboratory daily blank analyzed with the surface soil and the soil boring samples was contaminated with methylene chloride and bi(2-ethylhexyl)phthalate. These two compounds were also reported in a majority of the soil samples. No PCB, pesticide, or metals contamination of the daily blank was reported.

The laboratory daily blank analyzed with the groundwater samples was reported to be contaminated with bis(2-ethylhexyl)phthalate and di-n-butylphthalate, which were also reported in a majority of the groundwater samples. No volatile organic, PCB, pesticide, or metals contamination of the daily blank associated with the groundwater sample analyses



was reported.

The laboratory analysis of the field blanks associated with the soil samples indicated the presence of methylene chloride, bis(2-ethylhexyl)phthalate and di-n-butylphthalate. Several tentatively identified compounds (TICs) with retention times similar to those TICs detected in the soil sample analysis for the semi-volatile organic fraction were also found present in the field blanks.

The laboratory analysis of the field blanks associated with the groundwater samples indicated the presence of bis(2-ethylhexyl)phthalate and several TICs with retention times similar to those TICs reported in the groundwater analytical samples. In the volatile organic fraction of the analyses, methylene chloride, toluene and TICs with retention times similar to those TICs detected in the analytical samples were reported in the field blanks.

According to the analytical laboratory narrative, elevated method detection limits (MDLs) were reported in the analysis of groundwater samples FRGW-02 and FRGW-03. These elevated MDLs were a result of the dilution factor utilized in order to properly analyze the collected samples in accordance with the laboratory QA/QC procedures. Soil samples FRSB-04A, FRSB-01A, FRSB-01B, FRSB-03A, FRSB-09A, and FRSB-09B and groundwater samples FRGW-02 and FRGW-03 and the associated matrix spike (MS) and matrix spike duplicate (MSD) exhibited deviations from the QC criteria. These deviations consisted of significantly elevated dilution factors, and MS and MSD recoveries outside of QC criteria. The analytical results for the collected soil and groundwater field duplicates confirmed sample homogeneity, sampling procedures and analytical methods.

#### **4.0 LABORATORY ANALYSIS**

The collected soil samples were analyzed for the presence of volatile organics compounds plus a fifteen peak library search (VO+15), base neutral compounds plus a fifteen peak library search (BN+15), metals (RCRA Metals) and total cyanide, in accordance with the PSA Workplan. Ten percent of the collected samples from each sample group were analyzed for the Target Compound

List plus a thirty peak library search (TCL+30) and Target Analyte List metals (TAL Metals). The field duplicate samples were analyzed for the same parameters as its associated sample. The soil vapor samples were analyzed for volatile organics utilizing USEPA Method TO-15 and naphthalene by the Massachusetts Department of Environmental Protection (DEP) Air Phase Petroleum Hydrocarbons Method. The collected groundwater samples were analyzed for the presence of VO+15, BN+15, RCRA Metals and total cyanide, with one sample being analyzed for TCL+30 and TAL Metals. The results of the laboratory analyses are discussed in following sections by analytical parameter.

A summary of analytical test results reported by the laboratory for the collected analytical samples and associated QA/QC samples obtained during this environmental sampling program are summarized in table format as listed below. The analytical results for each sampling location are summarized in data tables as described below:

Table 2	Soil Boring Sample Analytical Results Summary
Table 3	Surface Soil Sample Analytical Results Summary
Table 4	Test Trench Soil Sample Analytical Results Summary
Table 5	Soil Vapor Sample Analytical Results Summary
Table 6	QA/QC Control Blanks Analytical Results Summary

A copy of the laboratory summary sheets for the soil and groundwater sample analyses are included in Appendices H and I, respectively. Appendix J contains the soil vapor laboratory analytical data package. Appendix K contains a photographic log of some of the collected soil samples.

#### **4.1     Soil Boring Soil Samples**

A total of sixteen soil samples were collected from the eight soil borings. Samples FRSB-01B, FRSB-09A and FRSB-09B were analyzed for TCL+30 and TAL Metals. The remainder of the soil boring samples were analyzed for VO+15, BN+15, RCRA Metals and total cyanide.

#### **4.1.1 Volatile Organic Compounds**

Methylene chloride, a common laboratory chemical/contaminant, was reported by the laboratory to be present in 12 of the 16 soil samples at concentrations ranging from 0.0048 parts per million (ppm) to 0.012 ppm. Methylene Chloride was also detected in the associated laboratory blank. Acetone was reported in sample FRSB-04B at 0.03 ppm and ethylbenzene was reported in samples FRSB-01A (0.25 ppm); FRSB-03A (33 ppm); FRSB-04A (32 ppm) and FRSB-04B (0.0026 ppm). Toluene was reported in 12 of the 16 soil samples at concentrations ranging from 0.0015 ppm to 2.9 ppm. The analytical laboratory reported the presence of xylenes in four samples; FRSB-01A (0.37 ppm); FRSB-03A (60 ppm); FRSB-04A (23 ppm) and FRSB-04B (0.0039 ppm).

#### **4.1.2 Base Neutral Compounds**

Several base neutral compounds were reported by the laboratory to be present in some or all of the 16 soil boring samples. Generally, the majority of the detected compounds were the polycyclic aromatic hydrocarbons (PAHs).

#### **4.1.3 Pesticides/Polychlorinated Biphenyls**

Three samples (FRSB-01B, FRSB-09A and FRSB-09B) were analyzed for pesticides and polychlorinated biphenyls (PCBs) as part of the TCL+30 analysis. Only sample FRSB-01B was reported to contain concentrations of pesticides above the detection limit. These contaminants were endrin aldehyde at 0.016 ppm; endrin ketone at 0.015 ppm and P,P=DDT at 0.024 ppm. PCBs were reported as Not detected at the method detection limit in all three samples.

#### **4.1.4 Inorganic Constituents**

Certain metals (arsenic, barium, chromium and lead) were reported to be present in all or some of the samples analyzed for RCRA Metals. Arsenic was reported in five of the 16 samples at concentrations ranging from 2.6 ppm to 6.3 ppm. Barium was reported in six samples, at concentrations ranging from 12 ppm to 59 ppm. Chromium was reported in seven samples, at concentrations ranging from 6 ppm to 18 ppm and lead was reported in five samples at concentrations ranging from 10 ppm to 214 ppm.

In those samples analyzed for TAL Metals (FRSB-01B, FRSB-09A and FRSB-09B) the analytical laboratory reported the presence of aluminum, arsenic, barium, iron, lead, manganese, vanadium and zinc in all or some of the samples.

Cyanide was reported as not detectable above the detection limits in all 16 samples.

## **4.2 Surface Soil Samples**

A total of 14 soil samples were collected from the surface sample locations. Sample FRSS-04 was analyzed for TCL+30 and TAL Metals. The remainder of the samples were analyzed for VO+15, BN+15, RCRA Metals and total cyanide.

### **4.2.1 Volatile Organic Compounds**

Acetone, methylene chloride, (a common laboratory chemical/contaminant), and toluene were the only volatile organic compounds (VOCs) reported in some or all of the surface soil samples. The reported concentrations of methylene chloride ranged from 0.003 to 0.0088 ppm. Methylene Chloride was also detected in the associated laboratory blank. The reported concentrations of toluene ranged from 0.0015 ppm to 0.013 ppm. Acetone was detected only in sample FRSS-01, at a concentration of 0.037 ppm.

### **4.2.2 Base Neutral Compounds**

Several base neutral compounds were reported by the laboratory to be present in some or all of the 14 surface soil samples. Generally, the majority of the detected compounds were the PAHs.

### **4.2.3 Pesticides/Polychlorinated Biphenyls**

Only one sample, FRSS-04, was analyzed for pesticides/polychlorinated biphenyls (PCBs). The concentrations of PCBs in this sample was 0.08 ppm; pesticides were reported as Not detected at the laboratory method detection limit.

#### **4.2.4 Inorganic Constituents**

All of the samples were analyzed for RCRA Metals with the exception of sample FRSS-04, which was analyzed for TAL metals. In those samples analyzed for RCRA Metals, the analytical laboratory reported all or some of the metals in each sample with the exception of selenium and silver which were reported as not-detected at the laboratory detection limit. The analytical laboratory also reported the presence of the following TAL Metals: aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, vanadium and zinc in sample FRSS-04. Cyanide was reported in six of the samples at concentrations ranging from 0.27 ppm to 0.93 ppm.

#### **4.3 Test Trench Soil Samples**

Four soil samples were collected from within the test trench and were identified as FRTT-01 through FRTT-04. Samples FRTT-01, FRTT-02 and FRTT-03 were analyzed for VO+15, BN+15, RCRA Metals and cyanide; FRTT-03 was analyzed for TCL+30 and TAL Metals. Sample FRTT-04 was a field duplicate of sample FRTT-01.

##### **4.3.1 Volatile Organic Compounds**

Methylene chloride, a common laboratory chemical/contaminant, was the only VOC reported in all four soil samples. Methylene Chloride was also detected in the associated laboratory blank. The reported concentrations ranged from 0.006 ppm to 0.00074 ppm. Benzene was detected in sample FRTT-04 at a concentration of 0.0019 ppm and toluene was reported in sample FRTT-03 at 0.003 ppm and FRTT-04 at 0.0051 ppm.

##### **4.3.2 Base Neutral Compounds**

Several base neutral compounds were reported in some or all of the 14 surface soil samples. Generally, the majority of the detected compounds were the PAHs compounds.

#### **4.3.3 Pesticides/Polychlorinated Biphenyls**

Only one sample, FRTT-03, was analyzed for pesticides/polychlorinated biphenyls (PCBs). The laboratory reported PCBs as not-detected at the method detection limit.

Two pesticides were reported to be present, endrin ketone at a concentration of 0.029 ppm and methoxychlor at 0.12 ppm.

#### **4.3.4 Inorganic Constituents**

All of the samples were analyzed for RCRA Metals, with the exception of sample FRTT-03 which was analyzed for TAL metals. In those samples which were analyzed for RCRA Metals the analytical laboratory reported all or some of the metals in each sample. The analytical laboratory reported the presence of 18 of the 22 TAL Metals in sample FRTT-03. Cyanide was reported to be present only in sample FRTT-03 at a concentration of 0.61 ppm.

### **4.4 Soil Vapor Samples**

Table 5 presents the analytical results for the five soil vapor canister samples that were collected during the field sampling program. The collected samples were identified as FRSV-01 through FRSV-04, plus FRSV-06, a duplicate of sample FRSV-04. The samples were analyzed for VOC content and naphthalene using USEPA Method TO-15 using Massachusetts DEP Air Phase Petroleum Hydrocarbons Method. The detection limit for each individual compound was 0.5 parts per billion (ppb). The results of the analysis indicated the presence of various VO compounds and naphthalene at low level ppb concentrations. A total of 17 VO compounds and naphthalene were detected in one or more

of the five collected samples. The highest concentration of any VO compound detected was 59 ppb isopropyl alcohol at sample location FRSV-01. The highest total VOC concentration was 98.1 ppb, also at sample location FRSV-01. Naphthalene was detected at two sample locations, FRSV-03 at 1.4 ppb and FRSV-06 at 3.6 ppb. FRSV-06 is the field duplicate sample of FRSV-04.

#### **4.5 Groundwater Samples**

Seven groundwater samples were collected from the subject site. Sample FRGW-03 was the only sample analyzed for TCL+30 and TAL Metals. The remainder of the samples were analyzed for VO+15, BN+15, RCRA Metals and total cyanide. Sample FRGW-08 is a field duplicate of sample FRGW-06. Table 7 presents the analytical results for each groundwater sampling location and the associated QA/QC blanks.

##### **4.5.1 Volatile Organic Compounds**

Benzene was reported in sample FRGW-03 at a concentration of 540 ppb, while ethylbenzene was reported in samples FRGW-02 at 41 ppb and FRGW-03 at 1900 ppb. Toluene was reported in samples FRGW-03 at 24,000 ppb and FRGW-05 at 27 ppb. Xylenes were reported in samples FRGW-02 at 29 ppb; FRGW-03 at 4,200 ppb; FRGW-05 at 2.5 ppb and FRGW-06 at 1.4 ppb but below its laboratory method detection limit. Chloroform was reported in FRGW-07 at a concentration of 5 ppb, which was also below the laboratory method detection limit.



#### **4.5.2 Base Neutral Organic Compounds**

Five base neutral organic compounds were reported in all or some of the groundwater samples, while 2-methylnaphthalene was reported in samples FRGW-02 at 87 ppb and FRGW-03 at 70 ppb. Acenaphthylene was reported in sample FRGW-03 at 30 ppb. Bis(2-ethylhexyl)phthalate was reported in samples FRGW-01 at 1.9 ppb; FRGW-05 at 1.4 ppb; FRGW-06 at 1.2 ppb; FRGW-07 at 2.3 ppb and FRGW-08 at 1.5 ppb. All of these results were below the respective laboratory method detection limits. Bis(2-ethylhexyl)phthalate was also present in the associated laboratory blank. Di-n-butylphthalate was reported at 1.4 ppb in both FRGW-01 and FRGW-07, below their associated laboratory method detection limit and also present in the associated laboratory blank. Naphthalene was reported to be present in FRGW-02 at 1600 ppb; FRGW-03 at 3200 ppb; FRGW-05 at 7.5 ppb; FRGW-06 at 4 ppb and FRGW-08 at 6.1 ppb. The concentrations of naphthalene in samples FRGW-05, FRGW-06 and FRGW-08 were reported at concentrations below their associated laboratory method detection limits.

#### **4.5.3 Pesticides/Polychlorinated Biphenyls**

Pesticides and polychlorinated biphenyls (PCBs) analyses were conducted on sample FRGW-03. Both PCBs and pesticides were reported as not-detected at the laboratory method detection limit.

#### **4.5.4 Inorganic Constituents**

Sample FRGW-03 was analyzed for TAL Metals and the analytical laboratory reported the presence of aluminum, calcium, iron, lead, magnesium, manganese, potassium and sodium in this sample. The only RCRA Metals reported were barium at concentrations of 300 ppb in sample FRGW-01 and 160 ppb in sample FRGW-02

and lead at 6.3 ppb in sample FRGW-02. Cyanide was reported as not detectable at the laboratory detection limits in all seven samples.

## **5.0 SUMMARY**

PS&S ENG, PC at the request of KeySpan and in accordance with the NYSDEC Order on Consent #D1-0001-99-05, conducted a Preliminary Site Assessment (PSA) of a parcel of land located at 1200-1224 Brunswick Avenue, Far Rockaway, Queens County, New York. The subject site is also identified as Section 59/Block 15529/Lots 102, 105, 110 and 115 according to the Far Rockaway Tax Department. The site is not currently owned or operated by Keyspan.

Review of available historical information regarding the subject site indicated that a Manufactured Gas Plant (MGP) site operated on-site between the years of 1900 and 1909. The facilities associated with this MGP site were one building (1216 Brunswick Avenue) which housed the coal bins, purifier and gas generator and a 75,000 cubic foot (cf) gas holder which was located on the landscaped area of 1224 Brunswick Avenue. During the site reconnaissance none of these structures were found to be present, with the exception of the former gas holder foundation which was encountered in the test trench which was completed as part of the soil investigation activities.

A soil and groundwater sampling and analysis program was conducted at the site to investigate the potential for the presence of contaminants in the surface and subsurface soils and groundwater. This sampling program was initiated during the week of December 2, 2002 and consisted of the collection of fourteen surface soil samples; sixteen soil samples were collected from eight soil borings; three samples were collected from a test trench which was excavated to determine the presence of the former gas holder foundation; and four soil vapor samples were collected. Additionally, six of the soil borings were converted into groundwater monitoring wells to aid in the collection of groundwater samples for laboratory analysis.

Groundwater was encountered in the soil borings at depths ranging from four to eight feet below surface grade and groundwater flow was determined to be in a general northwesterly direction.

Evaluation of the analytical data obtained from samples collected from the subsurface in the soil borings, test trench excavations and surface sample locations indicated the presence of SVO compounds, (particularly polycyclic aromatic hydrocarbons (PAHs)), RCRA and TAL metals at concentrations exceeding NYSDEC recommended soil cleanup objective guidelines (Table 8). The largest distribution of compounds were present, in samples obtained from the area of the former gas holder. VO compounds were also reported to be present at concentrations exceeding the NYSDEC recommended soil cleanup objective guidelines. These samples were obtained from the area of the former gas holder.

Evaluation of the analytical data from the groundwater samples indicated the presence of SVO compounds, particularly polycyclic aromatic hydrocarbons (PAHs), RCRA and TAL metals and BTEX compounds to be present at concentrations exceeding NYSDEC groundwater standards. These samples were collected in the area of the former gas holder.

The results of the analysis of the soil vapor samples indicated the presence of various VO compounds and naphthalene at low level concentrations. The highest concentration of any VO compound detected was 59 parts per billion (ppb) isopropyl alcohol at sample location FRSV-01. The highest total VOC concentration was 98.1 ppb, also at sample location FRSV-01. Naphthalene was detected at two sample locations, FRSV-03 at 1.4 ppb and FRSV-06 at 3.6 ppb. FRSV-06 is the field duplicate sample of FRSV-04. These samples were collected in the area of the former gas holder.

# TABLES

**TABLE 1  
KEYSPAN CORPORATION  
FAR ROCKAWAY FORMER MGP SITE  
ANALYTICAL SAMPLE SUMMARY TABLE**

<b>SAMPLE NO.</b>	<b>SAMPLE DATE</b>	<b>SAMPLE DEPTH</b>	<b>SAMPLE MATRIX</b>	<b>ANALYTICAL PARAMETERS</b>
FRSB-03A	12/2/02	6.5'-7.5'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-03B	12/2/02	12.5'-13.5'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-03	12/2/02	6"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-05	12/2/02	6"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-07	12/2/02	6"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRTSS-08	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-06	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-04	12/2/02	4"	SOIL	FULL TAL/TCL
FRSS-02	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-14	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-12	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-11	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-09	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-08A	12/2/02	3.5' – 4.5'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-08B	12/2/02	14' – 15'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-13	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-15	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-01	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-01(MS)	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSS-01(MSD)	12/2/02	4"	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE

**NOTES:**

VO+15 = Volatile Organic compounds plus a Fifteen-Peak Library Search.

BN + 15 = Base Nuetral Organic compounds plus a Fifteen-Peak Library Search.

RCRA Metals = Resource Conservation and Recovery Act Metals.

TCL+30 = Target Compound List plus a Thirty-Peak Library Search.

TAL Metals = Target Anlayte Metals

**TABLE 1 (Cont.)  
KEYSPAN CORPORATION  
FAR ROCKAWAY FORMER MGP SITE  
ANALYTICAL SAMPLE SUMMARY TABLE**

SAMPLE NO.	SAMPLE DATE	SAMPLE DEPTH	SAMPLE MATRIX	ANALYTICAL PARAMETERS
FRSB-02A	12/2/02	4' – 5'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-02B	12/2/02	13' – 14'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-10A	12/2/02	4' – 5'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-10B	12/2/02	12' – 13'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FB120202	12/2/02	-----	WATER	FULL TAL/TCL
STB120202	12/2/02	-----	WATER	VO+15
WTB120202	12/2/02	-----	WATER	VO+15
FB120402	12/4/02	-----	WATER	FULL TAL/TCL
FRSB-04A	12/4/02	9' – 10'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-04B	12/4/02	15' – 16'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRTT-01	12/4/02	5' – 5.5'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRTT-02	12/4/02	2' – 3'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRTT-03	12/4/02	5' – 5.5'	SOIL	FULL TAL/TCL
FRSB-01A	12/4/02	2' – 4'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-01B	12/4/02	6' – 7'	SOIL	FULL TAL/TCL
FRSV-01	12/4/02	3'	VAPOR	TO-15, NAPHTHALENE
FRSV-03	12/4/02	3'	VAPOR	TO-15, NAPHTHALENE
FRSV-04	12/4/02	3'	VAPOR	TO-15, NAPHTHALENE
FRSV-06	12/4/02	3'	VAPOR	TO-15, NAPHTHALENE

**NOTES:**

VOC+15 = Volatile Organic compounds plus a Fifteen-Peak Library Search.

TPHC = Total Petroleum Hydrocarbons.

PP+40 = Priority Pollutants plus a Forty-Peak Library Search.

**TABLE 1(Cont.)  
KEYSPAN CORPORATION  
FAR ROCKAWAY FORMER MGP SITE  
ANALYTICAL SAMPLE SUMMARY TABLE**

SAMPLE NO.	SAMPLE DATE	SAMPLE DEPTH	SAMPLE MATRIX	ANALYTICAL PARAMETERS
FRSB-09A	12/4/02	6'-7'	SOIL	FULL TAL/TCL
FRSB-09B	12/4/02	13'-14'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-09B(MS)	12/4/02	13'-14'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-09B (MSD)	12/4/02	13'-14'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
STB120402	12/4/02	-----	WATER	VO+15
WTB120402	12/4/02	-----	WATER	VO+15
FB120502	12/5/02	-----	WATER	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-11A	12/5/02	5' – 6'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSB-11B	12/5/02	13' – 14'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE
FRSV-02	12/5/02		AIR	TO-15, NAPHTHALENE
FRTT-04	12/5/02	5' – 5.5'	SOIL	VO+15, BN+15, RCRA METALS, CYANIDE

**NOTES:**

VO+15 = Volatile Organic compounds plus a Fifteen-Peak Library Search.

BN + 15 = Base Nuetral Organic compounds plus a Fifteen-Peak Library Search.

RCRA Metals = Resource Conservation and Recovery Act Metals.

TCL+30 = Target Compound List plus a Thirty-Peak Library Search.

TAL Metals = Target Anlayte Metals



**TABLE 1(Cont.)  
KEYSPAN CORPORATION  
FAR ROCKAWAY FORMER MGP SITE  
GROUNDWATER ANALYTICAL SAMPLE SUMMARY TABLE**

<b>SAMPLE NO.</b>	<b>SAMPLE DATE</b>	<b>ASSOCIATED SOIL BORING</b>	<b>SAMPLE MATRIX</b>	<b>ANALYTICAL PARAMETERS</b>
FB121202	12/12/02	---	WATER	FULL TAL/TCL
TB121202	12/12/02	---	WATER	VO+15
FRGW-07	12/12/02	FRSB-11	GROUNDWATER	VO+15, BN+15, RCRA METALS, CYANIDE
FRGW-01	12/12/02	FRSB-02	GROUNDWATER	VO+15, BN+15, RCRA METALS, CYANIDE
FRGW-02	12/12/02	FRSB-03	GROUNDWATER	VO+15, BN+15, RCRA METALS, CYANIDE
FRGW-03	12/12/02	FRSB-04	GROUNDWATER	FULL TAL/TCL
FRGW-03 (MS)	12/12/02	FRSB-04	GROUNDWATER	FULL TAL/TCL
FRGW-03(MSD)	12/12/02	FRSB-04	GROUNDWATER	FULL TAL/TCL
FRGW-05	12/12/02	FRSB-08	GROUNDWATER	VO+15, BN+15, RCRA METALS, CYANIDE
FRGW-06	12/12/02	FRSB-09	GROUNDWATER	VO+15, BN+15, RCRA METALS, CYANIDE
FRGW-08	12/12/02	FRSB-09	GROUNDWATER	VO+15, BN+15, RCRA METALS, CYANIDE

**NOTES:**

VO+15 = Volatile Organic compounds plus a Fifteen-Peak Library Search.

BN + 15 = Base Neutral Organic compounds plus a Fifteen-Peak Library Search.

RCRA Metals = Resource Conservation and Recovery Act Metals.

TCL+30 = Target Compound List plus a Thirty-Peak Library Search.

TAL Metals = Target Analyte Metals

<p align="center"><b>TABLE 2</b>  <b>KEYSPAN CORPORATION</b>  <b>FAR ROCKAWAY FORMER MGP SITE</b>  <b>SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY</b>  <b>SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL</b>  <b>DECEMBER 2002</b></p>									
Sample Number	NYSDEC	FRSB - 01A	FRSB - 01B	FRSB - 02A	FRSB - 02B	FRSB - 03A	FRSB - 03B	FRSB - 04A	FRSB - 04B
Lab Sample ID No.	Recommended	AB74446	AB74447	AB74154	AB74155	AB74143	AB74144	AB74441	AB74442
Depth (ft)	Soil	2' - 4'	6' - 7'	4' - 5'	13' - 14'	6.5' - 7.5'	12.5' - 13.5'	9' - 10'	15' - 16'
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/4/02	12/4/02	12/2/02	12/2/02	12/2/02	12/2/02	12/4/02	12/4/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
SEMI-VOLATILE ORGANIC COMPOUNDS									
1,2,4-Trichlorobenzene	N/A	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
1,4-Dichlorobenzene	N/A	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
2,4-Dinitrotoluene	N/A	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
2-Chlorophenol	0.8	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
4-Chloro-3-methylphenol	36.4	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
4-Nitrophenol	0.240 or MDL	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
<b>2-Methylnaphthalene</b>	0.330 or MDL	<b>7</b>	<b>53</b>	ND @ 0.38	ND @ 0.42	<b>85</b>	ND @ 0.41	<b>1.6</b>	<b>J</b> ND @ 0.41
Acenaphthene	50	1.5	J	9	ND @ 0.38	ND @ 0.42	ND @ 0.46	0.23	J ND @ 0.41
<b>Acenaphthylene</b>	41	ND @ 1.8	<b>52</b>	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	1.1	J ND @ 0.41
Anthracene	50	1.59	J	16	ND @ 0.38	ND @ 0.42	ND @ 0.46	0.55	J ND @ 0.41
<b>Benzo[a]anthracene</b>	0.224 or MDL	<b>0.43</b>	<b>J</b>	<b>9.3</b>	0.073	J ND @ 0.42	ND @ 0.46	<b>0.55</b>	<b>J</b> ND @ 0.41
<b>Benzo[a]pyrene</b>	0.061 or MDL	<b>0.41</b>	<b>J</b>	<b>8.8</b>	0.095	J ND @ 0.42	ND @ 0.46	<b>0.34</b>	<b>J</b> ND @ 0.41
<b>Benzo[b]fluoranthene</b>	1.1	0.86	J	<b>8.4</b>	0.15	J ND @ 0.42	ND @ 0.46	0.56	J ND @ 0.41
Benzo[g,h,i]perylene	50	0.29	J	6	0.055	J ND @ 0.42	ND @ 0.46	0.23	J ND @ 0.41
<b>Benzo[k]fluoranthene</b>	1.1	0.37	J	<b>2.2</b>	<b>J</b> 0.047	J ND @ 0.42	ND @ 0.46	0.26	J ND @ 0.41
Butylbenzylphalate	50	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
Bis(2-Ethylhexyl)phthalate	50	6.5	B	0.43	JB	0.22	JB	0.23	J ND @ 0.46
Carbazole	N/A	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
<b>Chrysene</b>	0.4	<b>0.46</b>	<b>J</b>	<b>9.5</b>	0.11	J ND @ 0.42	ND @ 0.46	<b>0.66</b>	<b>J</b> ND @ 0.41
<b>Dibenzo[a,h]Anthracene</b>	0.014 or MDL	ND @ 1.8	<b>0.88</b>	<b>J</b>	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	<b>0.042</b> J ND @ 0.41
Dibenzofuran	6.2	0.72	J	0.47	J ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38
Di-n-butylphthalate	8.1	ND @ 1.8	ND @ 3.9	0.11	J	0.097	J ND @ 0.46	0.082	J ND @ 0.41
Di-n-octylphthalate	50	7.4	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
Fluoranthene	50	0.85	J	27	0.23	J ND @ 0.42	7.2	J ND @ 0.41	1.9
Fluorene	50	2.7	25	ND @ 0.38	ND @ 0.42	4.9	J ND @ 0.41	0.75	J ND @ 0.41
<b>Indeno[1,2,3-cd]pyrene</b>	3.2	0.29	J	<b>3.9</b>	<b>J</b> 0.056	J ND @ 0.42	ND @ 0.46	0.19	J ND @ 0.41
<b>Isophorone</b>	4.4	ND @ 1.8	<b>34</b>	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
<b>Naphthalene</b>	13	2.3	<b>34</b>	ND @ 0.38	ND @ 0.42	<b>520</b>	0.16	J 4.7	J ND @ 0.41
N-Nitro-Di-N-Propylamine	N/A	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
Pentachlorophenol	1.0 or MDL	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
Phenanthrene	50	3.6	62	0.18	J ND @ 0.42	16	J ND @ 0.41	2.9	J 0.052
Phenol	0.03 or MDL	ND @ 1.8	ND @ 3.9	ND @ 0.38	ND @ 0.42	ND @ 0.46	ND @ 0.41	ND @ 0.38	ND @ 0.41
Pyrene	50	2	39	0.18	J ND @ 0.42	6.4	J ND @ 0.41	2.2	J 0.047
<b>Total Non-Targeted BN's</b>	N/A	122	J	266.4	J	34.68	J	562	J
<p><b>NOTES:</b>  NA - Not Analyzed  ND - Non Detected at Method Detection Limit  N/A - Indicates no Soil Cleanup Objective number established for that compound.</p>									
						B - Compound Found in Associated Lab Blank J - Estimated Value			

**TABLE 2 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSB - 08A	FRSB - 08B	FRSB - 09A	FRSB - 09B	FRSB - 09B(MS)	FRSB - 09B(MSD)	FRSB - 10A	FRSB - 10B	FRSB - 11A	FRSB - 11B
Lab Sample ID No.	Recommended	AB74136	AB74137	AB74448	AB74449	AB74450	AB74451	AB74156	AB74157	AB74404	AB74405
Depth (ft)	Soil	3.5' - 4.5'	14' - 15'	6' - 7'	13' - 14'	13' - 14'	13' - 14'	4' - 5'	12' - 13'	5' - 6'	13' - 14'
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/4/02	12/4/02	12/4/02	12/4/02	12/2/02	12/2/02	12/5/02	12/5/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
SEMI-VOLATILE ORGANIC COMPOUNDS											
1,2,4-Trichlorobenzene	N/A	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	3.8	3.3	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
1,4-Dichlorobenzene	N/A	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	3.4	3.1	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
2,4-Dinitrotoluene	N/A	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	3.5	3.2	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
2-Chlorophenol	0.8	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	5.3	5	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
4-Chloro-3-methylphenol	36.4	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	6.3	5.6	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
4-Nitrophenol	0.240 or MDL	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	6.5	6.3	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
2-Methylnaphthalene	0.330 or MDL	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Acenaphthene	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	3.4	3	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Acenaphthylene	41	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Anthracene	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Benzo[a]anthracene	0.224 or MDL	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Benzo[a]pyrene	0.061 or MDL	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Benzo[b]fluoranthene	1.1	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Benzo[g,h,i]perylene	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Benzo[k]fluoranthene	1.1	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Butylbenzylphalate	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Bis(2-Ethylhexyl)phthalate	50	0.062 JB	0.13 JB	0.13 JB	0.46 B	0.33 JB	ND @ 0.39	0.14 JB	0.13 JB	0.29 J	0.21 JB
Carbazole	N/A	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Chrysene	0.4	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Dibenzo[a,h]Anthracene	0.014 or MDL	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Dibenzofuran	6.2	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Di-n-butylphalate	8.1	ND @ 0.38	0.081 J	0.075 J	0.14 J	0.13 J	ND @ 0.39	0.041 J	ND @ 0.42	0.11 J	0.059 J
Di-n-octylphthalate	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	0.063 J	0.047 J	ND @ 0.39	ND @ 0.4	ND @ 0.42	0.041 J	ND @ 0.42
Fluoranthene	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Fluorene	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Indeno[1,2,3-cd]pyrene	3.2	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Isophorone	4.4	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Naphthalene	13	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
N-Nitro-Di-N-Propylamine	N/A	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	3.9	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Pentachlorophenol	1.0 or MDL	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	5.3	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Phenanthrene	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Phenol	0.03 or MDL	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	ND @ 0.39	5.2	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
Pyrene	50	ND @ 0.38	ND @ 0.4	ND @ 0.38	ND @ 0.42	3.5	ND @ 0.39	ND @ 0.4	ND @ 0.42	ND @ 0.39	ND @ 0.42
<b>Total Non-Targeted BN's</b>	N/A	28.62 J	31.47 J	49.23 J	34.40 J	13.69 J	13.49 J	29.97 J	34.87 J	34.92 J	55.12 J

**NOTES:**  
 NA - Not Analyzed  
 ND - Non Detected at Method Detection Limit  
 N/A - Indicates no Soil Cleanup Objective number established for that compound.  
 B - Compound Found in Associated Lab Blank  
 J - Estimated Value

**TABLE 2 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSB - 01A	FRSB - 01B	FRSB - 02A	FRSB - 02B	FRSB - 03A	FRSB - 03B	FRSB - 04A	FRSB - 04B
Lab Sample ID No.	Recommended	AB74446	AB74447	AB74154	AB74155	AB74143	AB74144	AB74441	AB74442
Depth (ft)	Soil	2' - 4'	6' - 7'	4' - 5'	13' - 14'	6.5' - 7.5'	12.5' - 13.5'	9' - 10'	15' - 16'
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/4/02	12/4/02	12/2/02	12/2/02	12/2/02	12/2/02	12/4/02	12/4/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
<b>VOLATILE ORGANIC COMPOUNDS</b>									
1,1,1-Trichloroethane	0.8	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
1,1,2,2-Tetrachloroethane	0.6	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
1,1,2-Trichloroethane	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
1,1-Dichloroethane	0.2	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
1,1-Dichloroethene	0.4	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
1,2-Dichloroethane	0.1	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
1,2-Dichloropropane	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
2-Butanone	0.3	ND @ 3.4	ND @ 3.7	ND @ 0.028	ND @ 0.031	ND @ 7.2	ND @ 0.03	ND @ 3.6	ND @ 0.031
2-Chloroethylvinylether	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
2-Hexanone	N/A	ND @ 2.7	ND @ 2.9	ND @ 0.023	ND @ 0.025	ND @ 5.7	ND @ 0.24	ND @ 2.8	ND @ 0.025
4-Methyl-2-Pentanone	1	ND @ 2.7	ND @ 2.9	ND @ 0.023	ND @ 0.025	ND @ 5.7	ND @ 0.24	ND @ 2.8	ND @ 0.025
Acetone	0.2	ND @ 2.7	ND @ 2.9	ND @ 0.023	ND @ 0.025	ND @ 5.7	ND @ 0.24	ND @ 2.8	0.03
Acrolein	N/A	ND @ 2	ND @ 2.2	ND @ 0.017	ND @ 0.019	ND @ 4.3	ND @ 0.018	ND @ 0.21	ND @ 0.019
Acrylonitrile	N/A	ND @ 0.94	ND @ 1	ND @ 0.0079	ND @ 0.0087	ND @ 2	ND @ 0.0085	ND @ 0.98	ND @ 0.0086
Benzene	0.06	ND @ 0.14	ND @ 0.15	ND @ 0.0011	ND @ 0.0012	ND @ 0.29	ND @ 0.0012	ND @ 0.14	ND @ 0.0012
Bromodichloromethane	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Bromoform	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Bromomethane	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Carbon Disulfide	2.7	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Carbon tetrachloride	0.6	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Chlorobenzene	1.7	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Chloroethane	1.9	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Chloroform	0.3	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Chloromethane	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Cis-1,2-Dichloroethene	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Cis-1,3-Dichloropropene	0.3	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Dibromochloromethane	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
<b>Ethylbenzene</b>	5.5	0.25	ND @ 0.15	ND @ 0.011	ND @ 0.0012	<b>33</b>	ND @ 0.0012	<b>32</b>	0.0026
Methylene Chloride	0.1	ND @ 0.68	ND @ 0.74	0.005 JB	0.011 B	ND @ 1.4	0.0061 JB	ND @ 0.71	0.012 B
Styrene	N/A	ND @ 0.14	ND @ 0.15	ND @ 0.011	ND @ 0.0012	ND @ 0.029	ND @ 0.0012	ND @ 0.14	ND @ 0.0012
Tetrachloroethene	1.4	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Toluene	1.5	0.16	ND @ 0.15	0.0015	0.0017	0.53	0.0025	<b>2.9</b>	0.0023
Trans-1,2-Dichloroethene	0.3	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Trans-1,3-Dichloropropene	N/A	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Trichloroethene	0.7	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
Vinyl Chloride	0.2	ND @ 0.68	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	ND @ 1.4	ND @ 0.0061	ND @ 0.71	ND @ 0.0062
<b>Xylenes</b>	1.2	0.37	ND @ 0.74	ND @ 0.0057	ND @ 0.0062	<b>60</b>	ND @ 0.0061	23	0.0039 J
Total Non-Targeted VOC's	N/A	395 J	580 J	0.015 J	ND	170.2 J	ND	194.1 J	0.011 J

**NOTES:**

NA - Not Analyzed

ND - Non Detected at Method Detection Limit

N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank

J - Estimated Value

**TABLE 2 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSB - 08A	FRSB - 08B	FRSB - 09A	FRSB - 09B	FRSB - 09B(MS)	FRSB - 09B(MSD)	FRSB - 10A	FRSB - 10B	FRSB - 11A	FRSB - 11B
Lab Sample ID No.	Recommended	AB74136	AB74137	AB74448	AB74449	AB74450	AB74451	AB74156	AB74157	AB74404	AB74405
Depth (ft)	Soil	3.5' - 4.5'	14' - 15'	6' - 7'	13' - 14'	13' - 14'	13' - 14'	4' - 5'	12' - 13'	5' - 6'	13' - 14'
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/4/02	12/4/02	12/4/02	12/4/02	12/2/02	12/2/02	12/5/02	12/5/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
VOLATILE ORGANIC COMPOUNDS											
1,1,1-Trichloroethane	0.8	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.067	0.063	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
1,1,2,2-Tetrachloroethane	0.6	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.057	0.054	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
1,1,2-Trichloroethane	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.06	0.055	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
1,1-Dichloroethane	0.2	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.062	0.057	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
1,1-Dichloroethene	0.4	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.076	0.07	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
1,2-Dichloroethane	0.1	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.064	0.061	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
1,2-Dichloropropane	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.055	0.052	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
2-Butanone	0.3	ND @ 0.028	ND @ 0.03	ND @ 0.028	ND @ 0.031	0.082	0.073	ND @ 0.03	ND @ 0.031	ND @ 0.029	ND @ 0.032
2-Chloroethylvinylether	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.04	0.04	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
2-Hexanone	N/A	ND @ 0.023	ND @ 0.024	ND @ 0.023	ND @ 0.025	0.07	0.065	ND @ 0.024	ND @ 0.024	ND @ 0.024	ND @ 0.025
4-Methyl-2-Pentanone	1	ND @ 0.023	ND @ 0.024	ND @ 0.023	ND @ 0.025	0.059	0.054	ND @ 0.024	ND @ 0.024	ND @ 0.024	ND @ 0.025
Acetone	0.2	ND @ 0.023	ND @ 0.024	ND @ 0.023	ND @ 0.025	0.61	0.58	ND @ 0.024	ND @ 0.024	ND @ 0.024	ND @ 0.025
Acrolein	N/A	ND @ 0.017	ND @ 0.018	ND @ 0.017	ND @ 0.019	0.4	0.36	ND @ 0.018	ND @ 0.019	ND @ 0.018	ND @ 0.019
Acrylonitrile	N/A	ND @ 0.0079	ND @ 0.0083	ND @ 0.0079	ND @ 0.0087	0.31	0.28	ND @ 0.0083	ND @ 0.0087	ND @ 0.0082	ND @ 0.0088
Benzene	0.06	ND @ 0.0011	ND @ 0.0012	ND @ 0.0011	ND @ 0.0012	0.056	0.054	ND @ 0.0012	ND @ 0.0012	ND @ 0.0012	ND @ 0.0013
Bromodichloromethane	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.063	0.063	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Bromoform	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.062	0.058	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Bromomethane	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.07	0.067	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Carbon Disulfide	2.7	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.064	0.059	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Carbon tetrachloride	0.6	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.07	0.066	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Chlorobenzene	1.7	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.058	0.055	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Chloroethane	1.9	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.06	0.055	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Chloroform	0.3	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.064	0.06	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Chloromethane	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.049	0.046	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Cis-1,2-Dichloroethene	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.057	0.058	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Cis-1,3-Dichloropropene	0.3	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.058	0.055	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Dibromochloromethane	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.066	0.062	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Ethylbenzene	5.5	ND @ 0.0011	ND @ 0.0012	ND @ 0.0011	ND @ 0.0012	0.055	0.052	ND @ 0.0012	ND @ 0.0012	ND @ 0.0012	ND @ 0.0013
Methylene Chloride	0.1	0.0054 JB	0.0056 JB	0.0048 JB	0.0058 JB	0.059 B	0.055 B	0.009 B	0.0059 JB	0.012 B	0.011 B
Styrene	N/A	ND @ 0.0011	ND @ 0.0012	ND @ 0.0011	ND @ 0.0012	0.058	0.055	ND @ 0.0012	ND @ 0.0012	ND @ 0.0012	ND @ 0.0013
Tetrachloroethene	1.4	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.059	0.058	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Toluene	1.5	0.002	0.0038	ND @ 0.0011	ND @ 0.0012	0.061	0.055	ND @ 0.0012	0.0028	0.0016	0.002
Trans-1,2-Dichloroethene	0.3	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.066	0.061	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Trans-1,3-Dichloropropene	N/A	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.06	0.057	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Trichloroethene	0.7	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.06	0.057	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Vinyl Chloride	0.2	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.053	0.051	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Xylenes	1.2	ND @ 0.0057	ND @ 0.006	ND @ 0.0057	ND @ 0.0062	0.167	0.165	ND @ 0.006	ND @ 0.0062	ND @ 0.0059	ND @ 0.0063
Total Non-Targeted VOC's	N/A	0.0059 JB	0.0062 JB	ND	0.0041 J	0.023 J	0.021 J	ND	0.0086 J	0.0049 J	ND

**NOTES:**

NA - Not Analyzed

ND - Non Detected at Method Detection Limit

N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank

J - Estimated Value

**TABLE 2 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**PCB'S AND PESTICIDES IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSB - 01A	FRSB - 01B	FRSB - 02A	FRSB - 02B	FRSB - 03A	FRSB - 03B	FRSB - 04A	FRSB - 04B
Lab Sample ID No.	Recommended	AB74446	AB74447	AB74154	AB74155	AB74143	AB74144	AB74441	AB74442
Depth (ft)	Soil	2' - 4'	6' - 7'	4' - 5'	13' - 14'	6.5' - 7.5'	12.5' - 13.5'	9' - 10'	15' - 16'
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/4/02	12/4/02	12/2/02	12/2/02	12/2/02	12/2/02	12/4/02	12/4/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
PCB'S									
Aroclor - 1016	1/10	NA	ND @ 0.29	NA	NA	NA	NA	NA	NA
Aroclor - 1221	1/10	NA	ND @ 0.29	NA	NA	NA	NA	NA	NA
Aroclor - 1232	1/10	NA	ND @ 0.29	NA	NA	NA	NA	NA	NA
Aroclor - 1242	1/10	NA	ND @ 0.29	NA	NA	NA	NA	NA	NA
Aroclor - 1248	1/10	NA	ND @ 0.29	NA	NA	NA	NA	NA	NA
Aroclor - 1254	1/10	NA	ND @ 0.29	NA	NA	NA	NA	NA	NA
Aroclor - 1260	1/10	NA	ND @ 0.29	NA	NA	NA	NA	NA	NA
PESTICIDES									
Aldrin	0.041	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.11	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Beta-BHC	0.2	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Chlordane	0.54	NA	ND @ 0.012	NA	NA	NA	NA	NA	NA
Delta-BHC	0.3	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Dieldrin	0.044	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Endosulfan I	0.9	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Endosulfan II	0.9	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Endrin	0.1	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	N/A	NA	0.016	NA	NA	NA	NA	NA	NA
Endrin Ketone	N/A	NA	0.015	NA	NA	NA	NA	NA	NA
Gamma-BHC	N/A	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Heptachlor	0.1	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	0.02	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
Methoxychlor	***	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
P,P'-DDD	2.9	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
P,P'-DDE	2.1	NA	ND @ 0.0059	NA	NA	NA	NA	NA	NA
P,P'-DDT	2.1	NA	0.024	NA	NA	NA	NA	NA	NA
Toxaphene	N/A	NA	ND @ 0.059	NA	NA	NA	NA	NA	NA

**NOTES:**

ND - Non Detected at Method Detection Limit

J - Estimated Value

N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank

NA - Not Analyzed

**TABLE 2 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**PCB'S AND PESTICIDES IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSB - 08A	FRSB - 08B	FRSB - 09A	FRSB - 09B	FRSB - 09B(MS)	FRSB - 09B(MSD)	FRSB - 10A	FRSB - 10B	FRSB - 11A	FRSB - 11B
Lab Sample ID No.	Recommended	AB74136	AB74137	AB74448	AB74449	AB74450	AB74451	AB74156	AB74157	AB74404	AB74405
Depth (ft)	Soil	3.5' - 4.5'	14' - 15'	6' - 7'	13' - 14'	13' - 14'	13' - 14'	4' - 5'	12' - 13'	5' - 6'	13' - 14'
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/4/02	12/4/02	12/4/02	12/4/02	12/2/02	12/2/02	12/5/02	12/5/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
PCB'S											
Aroclor - 1016	1/10	NA	NA	ND @ 0.028	ND @ 0.021	0.22	0.24	NA	NA	NA	NA
Aroclor - 1221	1/10	NA	NA	ND @ 0.028	ND @ 0.021	ND @ 0.02	ND @ 0.02	NA	NA	NA	NA
Aroclor - 1232	1/10	NA	NA	ND @ 0.028	ND @ 0.021	ND @ 0.02	ND @ 0.02	NA	NA	NA	NA
Aroclor - 1242	1/10	NA	NA	ND @ 0.028	ND @ 0.021	ND @ 0.02	ND @ 0.02	NA	NA	NA	NA
Aroclor - 1248	1/10	NA	NA	ND @ 0.028	ND @ 0.021	ND @ 0.02	ND @ 0.02	NA	NA	NA	NA
Aroclor - 1254	1/10	NA	NA	ND @ 0.028	ND @ 0.021	ND @ 0.02	ND @ 0.02	NA	NA	NA	NA
Aroclor - 1260	1/10	NA	NA	ND @ 0.028	ND @ 0.021	0.22	0.24	NA	NA	NA	NA
PESTICIDES											
Aldrin	0.041	NA	NA	ND @ 0.0057	ND @ 0.0042	0.033	0.031	NA	NA	NA	NA
Aplha-BHC	0.11	NA	NA	ND @ 0.0057	ND @ 0.0042	0.033	0.031	NA	NA	NA	NA
Beta-BHC	0.2	NA	NA	ND @ 0.0057	ND @ 0.0042	0.031	0.030	NA	NA	NA	NA
Chlordane	0.54	NA	NA	ND @ 0.011	ND @ 0.0083	ND @ 0.078	ND @ 0.0078	NA	NA	NA	NA
Delta-BHC	0.3	NA	NA	ND @ 0.0057	ND @ 0.0042	0.034	0.033	NA	NA	NA	NA
Dieldrin	0.044	NA	NA	ND @ 0.0057	ND @ 0.0042	0.032	0.030	NA	NA	NA	NA
Endosulfan I	0.9	NA	NA	ND @ 0.0057	ND @ 0.0042	0.030	0.028	NA	NA	NA	NA
Endosulfan II	0.9	NA	NA	ND @ 0.0057	ND @ 0.0042	0.033	0.032	NA	NA	NA	NA
Endosulfan Sulfate	1	NA	NA	ND @ 0.0057	ND @ 0.0042	0.035	0.034	NA	NA	NA	NA
Endrin	0.1	NA	NA	ND @ 0.0057	ND @ 0.0042	0.032	0.030	NA	NA	NA	NA
Endrin Aldehyde	N/A	NA	NA	ND @ 0.0057	ND @ 0.0042	0.029	0.028	NA	NA	NA	NA
Endrin Ketone	N/A	NA	NA	ND @ 0.0057	ND @ 0.0042	0.036	0.035	NA	NA	NA	NA
Gamma-BHC	N/A	NA	NA	ND @ 0.0057	ND @ 0.0042	0.033	0.031	NA	NA	NA	NA
Heptachlor	0.1	NA	NA	ND @ 0.0057	ND @ 0.0042	0.031	0.030	NA	NA	NA	NA
Heptachlor Epoxide	0.02	NA	NA	ND @ 0.0057	ND @ 0.0042	0.031	0.031	NA	NA	NA	NA
Methoxychlor	***	NA	NA	ND @ 0.0057	ND @ 0.0042	0.038	0.037	NA	NA	NA	NA
P,P'-DDD	2.9	NA	NA	ND @ 0.0057	ND @ 0.0042	0.038	0.038	NA	NA	NA	NA
P,P'-DDE	2.1	NA	NA	ND @ 0.0057	ND @ 0.0042	0.035	0.034	NA	NA	NA	NA
P,P'-DDT	2.1	NA	NA	ND @ 0.0057	ND @ 0.0042	0.036	0.034	NA	NA	NA	NA
Toxaphene	N/A	NA	NA	ND @ 0.057	ND @ 0.042	ND @ 0.039	ND @ 0.039	NA	NA	NA	NA

**NOTES:**

ND - Non Detected at Method Detection Limit

J - Estimated Value

N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank

NA - Not Analyzed

**TABLE 2 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**TAL METALS, RCRA METALS AND CYANIDE IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSB - 08A	FRSB - 08B	FRSB - 09A	FRSB - 09B	FRSB - 09B(MS)	FRSB - 09B(MSD)	FRSB - 10A	FRSB - 10B	FRSB - 11A	FRSB - 11B
Lab Sample ID No.	Recommended Soil Cleanup Objective PPM	AB74136	AB74137	AB74448	AB74449	AB74450	AB74451	AB74156	AB74157	AB74404	AB74405
Depth (ft)		3.5' - 4.5'	14' - 15'	6' - 7'	13' - 14'	13' - 14'	13' - 14'	4' - 5'	12' - 13'	5' - 6'	13' - 14'
Sample Type		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date		12/2/02	12/2/02	12/4/02	12/4/02	12/4/02	12/4/02	12/2/02	12/2/02	12/5/02	12/5/02
Units		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Aluminum	SB	NA	NA	450	NA	NA	NA	NA	NA	NA	NA
Antimony	SB	NA	NA	ND @ 2.3	NA	NA	NA	NA	NA	NA	NA
Arsenic	7.5 or SB	ND @ 2.3	6.3	ND @ 2.3	ND @ 2.5	63	68	ND @ 2.4	ND @ 2.5	3.6	ND @ 2.5
Barium	300 or SB	ND @ 11	19	ND @ 11	ND @ 12	63	74	12	ND @ 12	13	ND @ 13
Beryllium	0.16	NA	NA	ND @ 0.68	NA	NA	NA	NA	NA	NA	NA
Cadmium	1 or SB	ND @ 0.68	ND @ 0.72	ND @ 0.68	ND @ 0.75	56	56	ND @ 0.72	ND @ 0.75	ND @ 0.71	ND @ 0.76
Calcium	SB	NA	NA	ND @ 1100	NA	NA	NA	NA	NA	NA	NA
<b>Chromium</b>	10 or SB	ND @ 5.7	<b>11</b>	ND @ 5.7	ND @ 6.2	67	65	ND @ 6	ND @ 6.2	<b>18</b>	ND @ 6.3
Cobalt	30 or SB	NA	NA	ND @ 2.8	NA	NA	NA	NA	NA	NA	NA
Copper	25 or SB	NA	NA	ND @ 5.7	NA	NA	NA	NA	NA	NA	NA
Iron	2,000 or SB	NA	NA	1200	NA	NA	NA	NA	NA	NA	NA
Lead	SB	ND @ 5.7	ND @ 6	ND @ 5.7	ND @ 6.2	59	62	ND @ 6	ND @ 6.2	10	47
Magnesium	SB	NA	NA	ND @ 570	NA	NA	NA	NA	NA	NA	NA
Manganese	SB	NA	NA	ND @ 11	NA	NA	NA	NA	NA	NA	NA
Mercury	0.1	ND @ 0.16	ND @ 0.17	ND @ 0.16	ND @ 0.18	2.1	2.1	ND @ 0.17	ND @ 0.18	ND @ 0.17	ND @ 0.18
Nickel	13 or SB	NA	NA	ND @ 5.7	NA	NA	NA	NA	NA	NA	NA
Potassium	SB	NA	NA	ND @ 570	NA	NA	NA	NA	NA	NA	NA
Selenium	2 or SB	ND @ 2.3	ND @ 2.4	ND @ 2.3	ND @ 2.5	55	55	ND @ 2.4	ND @ 2.5	ND @ 2.4	ND @ 2.5
Silver	SB	ND @ 2.8	ND @ 3	ND @ 2.8	ND @ 3.1	56	57	ND @ 3	ND @ 3.1	ND @ 3.2	ND @ 3.2
Sodium	SB	NA	NA	ND @ 570	NA	NA	NA	NA	NA	NA	NA
Thallium	SB	NA	NA	ND @ 1.4	NA	NA	NA	NA	NA	NA	NA
Vanadium	150 or SB	NA	NA	ND @ 11	NA	NA	NA	NA	NA	NA	NA
<b>Zinc</b>	20 or SB	NA	NA	<b>28</b>	NA	NA	NA	NA	NA	NA	NA
Cyanide	***	ND @ 0.28	ND @ 0.3	ND @ 0.28	ND @ 0.31	5.2	5.2	ND @ 0.3	ND @ 0.31	ND @ 0.29	ND @ 0.32

**NOTES:**

NA - Not Analyzed

ND - Non Detected at Method Detection Limit

SB = Site Background

B - Compound Found in Associated Lab Blank

J - Estimated Value

N/A - Indicates no Soil Cleanup Objective number established for that compound.

\*\*\* = Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence are very unstable. Site-specific form(s) of Cyanide should be taken into consideration when establishing soil cleanup objective.



**TABLE 2 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**TAL METALS, RCRA METALS AND CYANIDE IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSB - 01A	FRSB - 01B	FRSB - 02A	FRSB - 02B	FRSB - 03A	FRSB - 03B	FRSB - 04A	FRSB - 04B
Lab Sample ID No.	Recommended	AB74446	AB74447	AB74154	AB74155	AB74143	AB74144	AB74441	AB74442
Depth (ft)	Soil	2' - 4'	6' - 7'	4' - 5'	13' - 14'	6.5' - 7.5'	12.5' - 13.5'	9' - 10'	15' - 16'
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/4/02	12/4/02	12/2/02	12/2/02	12/2/02	12/2/02	12/4/02	12/4/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Aluminum	SB	NA	2000	NA	NA	NA	NA	NA	NA
Antimony	SB	NA	ND @ 2.4	NA	NA	NA	NA	NA	NA
Arsenic	7.5 or SB	ND @ 2.2	ND @ 2.4	ND @ 2.3	ND @ 2.5	2.6	3.1	ND @ 2.3	ND @ 2.5
Barium	300 or SB	59	ND @ 12	34	ND @ 12	13	ND @ 12	ND @ 11	ND @ 12
Beryllium	0.16	NA	ND @ 0.71	NA	NA	NA	NA	NA	NA
Cadmium	1 or SB	ND @ 0.65	ND @ 0.71	ND @ 0.68	ND @ 0.75	ND @ 0.69	ND @ 0.73	ND @ 0.68	ND @ 0.74
Calcium	SB	NA	ND @ 1200	NA	NA	NA	NA	NA	NA
<b>Chromium</b>	10 or SB	6	8.1	<b>13</b>	ND @ 6.2	<b>16</b>	ND @ 6.1	7.4	ND @ 6.2
Cobalt	30 or SB	NA	ND @ 2.9	NA	NA	NA	NA	NA	NA
Copper	25 or SB	NA	ND @ 5.9	NA	NA	NA	NA	NA	NA
<b>Iron</b>	2,000 or SB	NA	<b>6300</b>	NA	NA	NA	NA	NA	NA
Lead	SB	210	14	30	ND @ 6.2	ND @ 5.7	ND @ 6.1	ND @ 5.7	ND @ 6.2
Magnesium	SB	NA	ND @ 590	NA	NA	NA	NA	NA	NA
Manganese	SB	NA	24	NA	NA	NA	NA	NA	NA
Mercury	0.1	ND @ 0.15	ND @ 0.17	ND @ 0.16	ND @ 0.18	ND @ 0.16	ND @ 0.17	ND @ 0.16	ND @ 0.18
Nickel	13 or SB	NA	ND @ 5.9	NA	NA	NA	NA	NA	NA
Potassium	SB	NA	ND @ 590	NA	NA	NA	NA	NA	NA
Selenium	2 or SB	ND @ 2.2	ND @ 2.4	ND @ 2.3	ND @ 2.5	ND @ 2.3	ND @ 2.4	ND @ 2.3	ND @ 2.5
Silver	SB	ND @ 2.7	ND @ 2.9	ND @ 2.8	ND @ 3.1	ND @ 2.9	ND @ 3	ND @ 2.8	ND @ 3.1
Sodium	SB	NA	ND @ 590	NA	NA	NA	NA	NA	NA
Thallium	SB	NA	ND @ 14	NA	NA	NA	NA	NA	NA
Vanadium	150 or SB	NA	12	NA	NA	NA	NA	NA	NA
Zinc	20 or SB	NA	ND @ 12	NA	NA	NA	NA	NA	NA
Cyanide	***	ND @ 0.27	ND @ 0.29	ND @ 0.28	ND @ 0.31	ND @ 0.29	ND @ 0.3	ND @ 0.28	ND @ 0.31

**NOTES:**

NA - Not Analyzed

ND - Non Detected at Method Detection Limit

SB = Site Background

\*\*\* = Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence are very unstable. Site-specific form(s) of Cyanide should be taken into consideration when establishing soil cleanup objective.

B - Compound Found in Associated Lab Blank

J - Estimated Value

N/A - Indicates no Soil Cleanup Objective number established for that compound.

**TABLE 3**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSS-01	FRSS-01 (MS)	FRSS-01 (MSD)	FRSS-02	FRSS-03	FRSS-04	FRSS-05	FRSS-06	FRSS-07
Lab Sample ID No.	Recommended	AB74141	AB74142	AB74153	AB74151	AB74145	AB74150	AB74146	AB74149	AB74147
Depth (ft)	Soil	4"	4"	4"	4"	6"	4"	6"	4"	6"
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
SEMI-VOLATILE ORGANIC COMPOUNDS										
1,2,4-Trichlorobenzene	N/A	ND @ 1.1	2.000	1.700	ND @ 0.37	ND @ 0.37	ND @ 0.37	ND @ 0.34	ND @ 0.37	ND @ 0.69
1,3-Dichlorobenzene	N/A	ND @ 1.1	2.200	1.900	ND @ 0.37	ND @ 0.37	ND @ 0.37	ND @ 0.34	ND @ 0.37	ND @ 0.69
2,4-Dinitrotoluene	N/A	ND @ 1.1	1.900	1.400	ND @ 0.37	ND @ 0.37	ND @ 0.37	ND @ 0.34	ND @ 0.37	ND @ 0.69
2-Methylnaphthalene	N/A	0.130 J	0.110 J	ND @ 1.1	0.140 J	ND @ 0.37	0.110 J	ND @ 0.34	0.140 J	ND @ 0.69
Acenaphthene	50	ND @ 1.1	2.400	2.200	0.055 J	ND @ 0.37	0.088 J	ND @ 0.34	0.084 J	ND @ 0.69
Acenaphthylene	41	0.120 J	ND @ 1.1	ND @ 1.1	0.210 J	ND @ 0.37	0.150 J	ND @ 0.34	0.200 J	ND @ 0.69
Anthracene	50	0.180 J	ND @ 1.1	ND @ 1.1	0.200 J	ND @ 0.37	0.360 J	ND @ 0.34	0.280 J	ND @ 0.69
Benzo[a]anthracene	0.224 or MDL	<b>0.620 J</b>	0.260 J	0.300 J	<b>0.940</b>	0.190 J	<b>1.900</b>	ND @ 0.34	<b>0.900</b>	0.170 J
Benzo[a]pyrene	0.061 or MDL	<b>0.860 J</b>	0.380 J	0.410 J	<b>1.000</b>	<b>0.200 J</b>	<b>1.700</b>	ND @ 0.34	<b>1.000</b>	<b>0.230 J</b>
Benzo[b]fluoranthene	<b>1.1</b>	<b>1.300 J</b>	0.630 J	0.630 J	<b>1.700</b>	0.370 J	<b>2.600</b>	ND @ 0.34	<b>1.600</b>	0.280 J
Benzo[g,h,i]perylene	50	0.410 J	ND @ 1.1	0.130 J	0.460	ND @ 0.37	0.690	ND @ 0.34	0.530	ND @ 0.69
Benzo[k]fluoranthene	1.1	0.500 J	0.150 J	0.220 J	0.620	0.150 J	0.820	ND @ 0.34	0.670	0.091 J
Butylbenzylphalate	50	ND @ 1.1	ND @ 1.1	ND @ 1.1	0.060 J	0.074 J	ND @ 0.37	ND @ 0.34	ND @ 0.37	ND @ 0.69
Bis(2-Ethylhexyl)phthalate	50	ND @ 1.1	ND @ 1.1	ND @ 1.1	0.081 J	ND @ 0.37	ND @ 0.37	ND @ 0.34	ND @ 0.37	1.600 B
Carbazole	N/A	ND @ 1.1	ND @ 1.1	ND @ 1.1	ND @ 0.37	ND @ 0.37	0.260 J	ND @ 0.34	0.120 J	ND @ 0.69
Chrysene	0.4	<b>0.890 J</b>	0.390 J	0.410 J	<b>1.000</b>	0.210 J	<b>1.700</b>	ND @ 0.34	<b>0.990</b>	0.190 J
Dibenzo[a,h]Anthracene	0.014 or MDL	ND @ 1.1	ND @ 1.1	ND @ 1.1	ND @ 0.37	ND @ 0.37	<b>0.075 J</b>	ND @ 0.34	ND @ 0.37	ND @ 0.69
Dibenzofuran	6.2	ND @ 1.1	ND @ 1.1	ND @ 1.1	ND @ 0.37	ND @ 0.37	0.048 J	ND @ 0.34	0.061 J	ND @ 0.69
Di-n-butylphalate	8.1	0.160 J	ND @ 1.1	ND @ 1.1	ND @ 0.37	ND @ 0.37	ND @ 0.37	ND @ 0.34	0.049 J	ND @ 0.69
Di-n-octylphthalate	50	ND @ 1.1	ND @ 1.1	ND @ 1.1	ND @ 0.37	ND @ 0.37	ND @ 0.37	ND @ 0.34	ND @ 0.37	ND @ 0.69
Fluoranthene	50	1.200 J	0.500 J	0.600 J	1.600	0.320 J	2.800	0.055 J	1.800	0.110 J
Fluorene	50	ND @ 1.1	ND @ 1.1	ND @ 1.1	0.087 J	ND @ 0.37	0.084 J	ND @ 0.34	0.092 J	ND @ 0.69
Indeno[1,2,3-cd]pyrene	3.2	0.360 J	ND @ 1.1	0.150 J	0.410	ND @ 0.37	0.740	ND @ 0.34	0.440	ND @ 0.69
Isophorone	4.4	ND @ 1.1	ND @ 1.1	0.780 J	ND @ 0.37	ND @ 0.37	ND @ 0.37	ND @ 0.34	ND @ 0.37	ND @ 0.69
Naphthalene	13	0.230 J	0.320 J	0.410 J	0.970	0.048 J	0.570	ND @ 0.34	0.720	ND @ 0.69
Phenanthrene	50	0.720 J	2.500	2.600	0.840	0.099 J	1.300	0.048 J	1.200	0.120 J
Pyrene	50	1.100	ND @ 1.1	ND @ 1.1	1.400	0.360 J	2.100	0.078 J	2.000	0.390 J
Total Non-Targeted SVO's	N/A	41.830 J	33.300 J	26.330 J	27.810 J	53.050 J	21.870 J	40.890 J	34.090 J	64.940 J

**NOTES:**  
NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
N/A - Indicates no Soil Cleanup Objective number established for that compound.  
B - Compound Found in Associated Lab Blank  
J - Estimated Value

**TABLE 3 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSS-08	FRSS-09	FRSS-11	FRSS-12	FRSS-13	FRSS-14	FRSS-15
Lab Sample ID No.	Recommended	AB74148	AB74135	AB74134	AB74133	AB74139	AB74152	AB74140
Depth (ft)	Soil	4"	4"	4"	4"	4"	4"	4"
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
SEMI-VOLATILE ORGANIC COMPOUNDS								
1,2,4-Trichlorobenzene	N/A	ND @ 0.37	ND @ 1.4	ND @ 0.39	ND @ 0.35	ND @ 0.36	ND @ 0.39	ND @ 0.36
1,3-Dichlorobenzene	N/A	ND @ 0.37	ND @ 1.4	ND @ 0.39	ND @ 0.35	ND @ 0.36	ND @ 0.39	ND @ 0.36
2,4-Dinitrotoluene	N/A	ND @ 0.37	ND @ 1.4	ND @ 0.39	ND @ 0.35	ND @ 0.36	ND @ 0.39	ND @ 0.36
2-Methylnaphthalene	N/A	0.7	0.66 J	ND @ 0.39	ND @ 0.35	ND @ 0.36	0.05 J	ND @ 0.36
Acenaphthene	50	0.091 J	0.31 J	ND @ 0.39	0.065 J	ND @ 0.36	0.068 J	ND @ 0.36
Acenaphthylene	41	0.43	1.2 J	ND @ 0.39	0.095 J	ND @ 0.36	0.41	ND @ 0.36
Anthracene	50	0.27 J	1.5	0.044 J	0.17 J	ND @ 0.36	0.29 J	ND @ 0.36
<b>Benzo[a]anthracene</b>	0.224 or MDL	<b>0.52</b>	<b>4</b>	<b>0.28 J</b>	<b>0.64</b>	0.11 J	<b>1.3</b>	0.06 J
<b>Benzo[a]pyrene</b>	0.061 or MDL	<b>0.55</b>	<b>4.1</b>	<b>0.3 J</b>	<b>0.63</b>	<b>0.089 J</b>	<b>1.5</b>	0.052 J
<b>Benzo[b]fluoranthene</b>	1.1	1	<b>8.1</b>	0.48	1	0.14 J	<b>2.9</b>	0.1 J
Benzo[g,h,i]perylene	50	0.68	2.4	0.17 J	0.24 J	ND @ 0.36	0.58	ND @ 0.36
Benzo[k]fluoranthene	1.1	0.31 J	<b>4.3</b>	0.17 J	0.41	0.062 J	0.72	ND @ 0.36
Butylbenzylphalate	50	ND @ 0.37	2.6	0.05 J	ND @ 0.35	ND @ 0.36	0.1 J	ND @ 0.36
Bis(2-Ethylhexyl)phthalate	50	0.65 B	5.6 B	ND @ 0.39	ND @ 0.35	ND @ 0.36	ND @ 0.39	ND @ 0.36
Carbazole	N/A	0.11 J	0.61 J	ND @ 0.39	0.11 J	ND @ 0.36	0.16 J	ND @ 0.36
<b>Chrysene</b>	0.4	<b>0.54</b>	<b>4.5</b>	0.35 J	<b>0.7</b>	0.11 J	<b>1.4</b>	0.065 J
<b>Dibenzo[a,h]Anthracene</b>	0.014 or MDL	<b>0.063 J</b>	<b>0.26 J</b>	ND @ 0.39	ND @ 0.35	ND @ 0.36	ND @ 0.39	ND @ 0.36
Dibenzofuran	6.2	0.085 J	0.22 J	ND @ 0.39	0.041 J	ND @ 0.36	0.063 J	ND @ 0.36
Di-n-butylphalate	8.1	0.042 J	0.41 J	0.12 J	0.1 J	0.043 J	0.099 J	ND @ 0.36
Di-n-octylphthalate	50	ND @ 0.37	ND @ 1.4	ND @ 0.39	ND @ 0.35	ND @ 0.36	ND @ 0.39	ND @ 0.36
Fluoranthene	50	0.7	4.5	0.6	1.5	0.22 J	2.6	0.15 J
Fluorene	50	0.13 J	0.44 J	ND @ 0.39	0.08 J	ND @ 0.36	0.085 J	ND @ 0.36
Indeno[1,2,3-cd]pyrene	3.2	0.47	2.2	0.14 J	0.23 J	ND @ 0.36	0.58	ND @ 0.36
Isophorone	4.4	ND @ 0.37	ND @ 1.4	ND @ 0.39	ND @ 0.35	ND @ 0.36	ND @ 0.39	ND @ 0.36
Naphthalene	13	0.93	2.3	ND @ 0.39	0.076 J	ND @ 0.36	0.13 J	ND @ 0.36
Phenanthrene	50	0.95	3.3	0.25 J	0.8	0.08 J	1.1	0.11 J
Pyrene	50	1.6	9.8	0.45	0.96	0.16 J	2.1	0.11 J
<b>Total Non-Targeted SVO's</b>	N/A	37.61 J	53.75 J	32.74 J	31.35 J	27.39 J	26.37 J	25.74 J

**NOTES:**

NA - Not Analyzed

ND - Non Detected at Method Detection Limit

N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank

J - Estimated Value

**TABLE 3 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSS-01	FRSS-01 (MS)	FRSS-01 (MSD)	FRSS-02	FRSS-03	FRSS-04	FRSS-05	FRSS-06	FRSS-07
Lab Sample ID No.	Recommended	AB74141	AB74142	AB74153	AB74151	AB74145	AB74150	AB74146	AB74149	AB74147
Depth (ft)	Soil	4"	4"	4"	4"	6"	4"	6"	4"	6"
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
<b>VOLATILE ORGANIC COMPOUNDS</b>										
1,1,1-Trichloroethane	0.8	ND @ 0.0056	0.054	0.029	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
1,1,2,2-Tetrachloroethane	0.6	ND @ 0.0056	0.044	0.025	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
1,1,2-Trichloroethane	N/A	ND @ 0.0056	0.047	0.025	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
1,1-Dichloroethane	0.2	ND @ 0.0056	0.043	0.023	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
1,1-Dichloroethene	0.4	ND @ 0.0056	0.045	0.02	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
1,2-Dichloroethane	0.1	ND @ 0.0056	0.048	0.024	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
1,2-Dichloropropane	N/A	ND @ 0.0056	0.046	0.025	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
2-Butanone	0.3	ND @ 0.028	0.068	0.039	ND @ 0.028	ND @ 0.028	ND @ 0.028	ND @ 0.026	ND @ 0.027	ND @ 0.026
2-Chloroethylvinylether	N/A	ND @ 0.0056	0.02	0.011	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0052	ND @ 0.0052
2-Hexanone	N/A	ND @ 0.022	0.058	0.029	ND @ 0.022	ND @ 0.022	ND @ 0.022	ND @ 0.021	ND @ 0.022	ND @ 0.021
4-Methyl-2-Pentanone	1	ND @ 0.022	0.049	0.028	ND @ 0.022	ND @ 0.022	ND @ 0.022	ND @ 0.021	ND @ 0.022	ND @ 0.021
Acetone	0.2	0.037	0.56	0.22	ND @ 0.022	ND @ 0.022	ND @ 0.022	ND @ 0.021	ND @ 0.022	ND @ 0.021
Acrolein	N/A	ND @ 0.017	0.35	0.11	ND @ 0.017	ND @ 0.017	ND @ 0.017	ND @ 0.015	ND @ 0.016	ND @ 0.015
Acrylonitrile	N/A	ND @ 0.0078	0.23	0.1	ND @ 0.0077	ND @ 0.0077	ND @ 0.0078	ND @ 0.0071	ND @ 0.0076	ND @ 0.0071
Benzene	0.06	ND @ 0.0011	0.046	0.025	ND @ 0.0011	ND @ 0.0011	ND @ 0.0011	ND @ 0.001	ND @ 0.0011	ND @ 0.001
Bromodichloromethane	N/A	ND @ 0.0056	0.051	0.026	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Bromoform	N/A	ND @ 0.0056	0.049	0.024	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Bromomethane	N/A	ND @ 0.0056	0.059	0.038	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Carbon Disulfide	2.7	ND @ 0.0056	0.037	0.016	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Carbon tetrachloride	0.6	ND @ 0.0056	0.051	0.028	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Chlorobenzene	1.7	ND @ 0.0056	0.038	0.019	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Chloroethane	1.9	ND @ 0.0056	0.054	0.034	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Chloroform	0.3	ND @ 0.0056	0.048	0.026	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Chloromethane	N/A	ND @ 0.0056	0.051	0.034	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Cis-1,2-Dichloroethene	N/A	ND @ 0.0056	0.046	0.026	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Cis-1,3-Dichloropropene	N/A	ND @ 0.0056	0.035	0.018	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Dibromochloromethane	N/A	ND @ 0.0056	0.048	0.024	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Ethylbenzene	5.5	ND @ 0.0011	0.04	0.022	ND @ 0.0011	ND @ 0.0011	ND @ 0.0011	ND @ 0.001	ND @ 0.0011	ND @ 0.001
Methylene Chloride	0.1	0.0056 B	0.048 B	0.029 B	0.0069 B	0.0073 B	0.0075 B	0.0053 B	0.0043 JB	0.0069 B
Styrene	N/A	ND @ 0.0011	0.039	0.018	ND @ 0.0011	ND @ 0.0011	ND @ 0.0011	ND @ 0.001	ND @ 0.0011	ND @ 0.001
Tetrachloroethene	1.4	ND @ 0.0056	0.04	0.02	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Toluene	1.5	0.005	0.045	0.025	0.0061	0.0073	0.004	0.0066	0.0016	0.013
Trans-1,2-Dichloroethene	0.3	ND @ 0.0056	0.038	0.018	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Trans-1,3-Dichloropropene	N/A	ND @ 0.0056	0.034	0.015	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Trichloroethene	0.7	ND @ 0.0056	0.041	0.02	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Vinyl Chloride	0.2	ND @ 0.0056	0.048	0.031	ND @ 0.0056	ND @ 0.0056	ND @ 0.0056	ND @ 0.0052	ND @ 0.0055	ND @ 0.0052
Xylenes	1.2	ND	0.127	0.066	ND	ND	ND	ND	ND	ND
Total Non-Targeted VOC's	N/A	0.0117 J	0.0039 J	0.0038 J	ND	0.0073 J	ND	ND	ND	ND

**NOTES:**  
NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
N/A - Indicates no Soil Cleanup Objective number established for that compound.  
B - Compound Found in Associated Lab Blank  
J - Estimated Value

<p align="center">TABLE 3 (Cont.)</p> <p align="center">KEYSPAN CORPORATION</p> <p align="center">FAR ROCKAWAY FORMER MGP SITE</p> <p align="center">SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY</p> <p align="center">VOLATILE ROGANIC COMPOUNDS IN SOIL</p> <p align="center">DECEMBER 2002</p>								
Sample Number	NYSDEC	FRSS-08	FRSS-09	FRSS-11	FRSS-12	FRSS-13	FRSS-14	FRSS-15
Lab Sample ID No.	Recommended	AB74148	AB74135	AB74134	AB74133	AB74139	AB74152	AB74140
Depth (ft)	Soil	4"	4"	4"	4"	4"	4"	4"
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
VOLATILE ORGANIC COMPOUNDS								
1,1,1-Trichloroethane	0.8	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
1,1,2,2-Tetrachloroethane	0.6	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
1,1,2-Trichloroethane	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
1,1-Dichloroethane	0.2	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
1,1-Dichloroethene	0.4	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
1,2-Dichloroethane	0.1	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
1,2-Dichloropropane	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
2-Butanone	0.3	ND @ 0.028	ND @ 0.035	ND @ 0.029	ND @ 0.027	ND @ 0.027	ND @ 0.029	ND @ 0.027
2-Chloroethylvinylether	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
2-Hexanone	N/A	ND @ 0.022	ND @ 0.028	ND @ 0.023	ND @ 0.021	ND @ 0.022	ND @ 0.023	ND @ 0.022
4-Methyl-2-Pentanone	1	ND @ 0.022	ND @ 0.028	ND @ 0.023	ND @ 0.021	ND @ 0.022	ND @ 0.023	ND @ 0.022
Acetone	0.2	ND @ 0.022	ND @ 0.028	ND @ 0.023	ND @ 0.021	ND @ 0.022	ND @ 0.023	ND @ 0.022
Acrolein	N/A	ND @ 0.017	ND @ 0.021	ND @ 0.017	ND @ 0.016	ND @ 0.016	ND @ 0.017	ND @ 0.016
Acrylonitrile	N/A	ND @ 0.0078	ND @ 0.0096	ND @ 0.0081	ND @ 0.0074	ND @ 0.0075	ND @ 0.0081	ND @ 0.0075
Benzene	0.06	ND @ 0.0011	ND @ 0.0014	ND @ 0.0012	ND @ 0.0011	ND @ 0.0011	ND @ 0.0012	ND @ 0.0011
Bromodichloromethane	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Bromoform	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Bromomethane	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Carbon Disulfide	2.7	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Carbon tetrachloride	0.6	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Chlorobenzene	1.7	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Chloroethane	1.9	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Chloroform	0.3	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Chloromethane	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Cis-1,2-Dichloroethene	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Cis-1,3-Dichloropropene	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Dibromochloromethane	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Ethylbenzene	5.5	ND @ 0.0011	ND @ 0.0014	ND @ 0.0012	ND @ 0.0011	ND @ 0.0011	ND @ 0.0012	ND @ 0.0011
Methylene Chloride	0.1	0.0088 B	0.0051 JB	0.003 JB	0.0047 JB	0.0037 JB	0.0073 B	0.0035 JB
Styrene	N/A	ND @ 0.0011	ND @ 0.0014	ND @ 0.0012	ND @ 0.0011	ND @ 0.0011	ND @ 0.0012	ND @ 0.0011
Tetrachloroethene	1.4	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Toluene	1.5	0.0075	0.0024	0.0022	0.0071	0.0015	ND @ 0.0012	ND @ 0.0011
Trans-1,2-Dichloroethene	0.3	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Trans-1,3-Dichloropropene	N/A	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Trichloroethene	0.7	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Vinyl Chloride	0.2	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Xylenes	1.2	ND @ 0.0056	ND @ 0.0069	ND @ 0.0058	ND @ 0.0053	ND @ 0.0054	ND @ 0.0058	ND @ 0.0054
Total Non-Targeted VOC's	N/A	ND	0.0056 JB	0.0089 J	0.0033 J	ND	ND	ND
<p><b>NOTES:</b></p> <p>NA - Not Analyzed</p> <p>ND - Non Detected at Method Detection Limit</p> <p>N/A - Indicates no Soil Cleanup Objective number established for that compound.</p> <p align="right">B - Compound Found in Associated Lab Blank</p> <p align="right">J - Estimated Value</p>								

**TABLE 3 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**PCB'S AND PESTICIDES IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSS-01	FRSS-01 (MS)	FRSS-01 (MSD)	FRSS-02	FRSS-03	FRSS-04	FRSS-05	FRSS-06	FRSS-07
Lab Sample ID No.	Recommended	AB74141	AB74142	AB74153	AB74151	AB74145	AB74150	AB74146	AB74149	AB74147
Depth (ft)	Soil	4"	4"	4"	4"	6"	4"	6"	4"	6"
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
<b>PCB'S</b>										
Aroclor - 1016	1/10	NA	NA	NA	NA	NA	ND @ 0.019	NA	NA	NA
Aroclor - 1221	1/10	NA	NA	NA	NA	NA	ND @ 0.019	NA	NA	NA
Aroclor - 1232	1/10	NA	NA	NA	NA	NA	ND @ 0.019	NA	NA	NA
Aroclor - 1242	1/10	NA	NA	NA	NA	NA	ND @ 0.019	NA	NA	NA
Aroclor - 1248	1/10	NA	NA	NA	NA	NA	ND @ 0.019	NA	NA	NA
Aroclor - 1254	1/10	NA	NA	NA	NA	NA	ND @ 0.019	NA	NA	NA
Aroclor - 1260	1/10	NA	NA	NA	NA	NA	0.08	NA	NA	NA
<b>PESTICIDES</b>										
Aldrin	0.041	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Alpha-BHC	0.11	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Beta-BHC	0.2	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Chlordane	0.54	NA	NA	NA	NA	NA	ND @ 0.0074	NA	NA	NA
Delta-BHC	0.3	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Dieldrin	0.044	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Endosulfan I	0.9	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Endosulfan II	0.9	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Endosulfan Sulfate	1	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Endrin	0.1	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Endrin Aldehyde	N/A	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Endrin Ketone	N/A	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Gamma-BHC	0.06	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Heptachlor	0.1	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Heptachlor Epoxide	0.02	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Methoxychlor	***	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
P,P'-DDD	2.9	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
P,P'-DDE	2.1	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
P,P'-DDT	2.1	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
Toxaphene	N/A	NA	NA	NA	NA	NA	ND @ 0.0037	NA	NA	NA
<b>NOTES:</b> NA - Not Analyzed ND - Non Detected at Method Detection Limit N/A - Indicates no Soil Cleanup Objective number established for that compound.										
				B - Compound Found in Associated Lab Blank J - Estimated Value						

**TABLE 3 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**PCB'S AND PESTICIDES IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC Recommended Soil Cleanup Objective PPM	FRSS-08	FRSS-09	FRSS-11	FRSS-12	FRSS-13	FRSS-14	FRSS-15
Lab Sample ID No.		AB74148	AB74135	AB74134	AB74133	AB74139	AB74152	AB74140
Depth (ft)		4"	4"	4"	4"	4"	4"	4"
Sample Type		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date		12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
<b>PCB'S</b>								
Aroclor - 1016	1/10	NA	NA	NA	NA	NA	NA	NA
Aroclor - 1221	1/10	NA	NA	NA	NA	NA	NA	NA
Aroclor - 1232	1/10	NA	NA	NA	NA	NA	NA	NA
Aroclor - 1242	1/10	NA	NA	NA	NA	NA	NA	NA
Aroclor - 1248	1/10	NA	NA	NA	NA	NA	NA	NA
Aroclor - 1254	1/10	NA	NA	NA	NA	NA	NA	NA
Aroclor - 1260	1/10	NA	NA	NA	NA	NA	NA	NA
<b>PESTICIDES</b>								
Aldrin	0.041	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.11	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.2	NA	NA	NA	NA	NA	NA	NA
Chlordane	0.54	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.044	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	0.9	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	0.9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1	NA	NA	NA	NA	NA	NA	NA
Endrin	0.1	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	N/A	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	N/A	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.06	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.1	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	0.02	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	N/A	NA	NA	NA	NA	NA	NA	NA
P,P'-DDD	2.9	NA	NA	NA	NA	NA	NA	NA
P,P'-DDE	2.1	NA	NA	NA	NA	NA	NA	NA
P,P'-DDT	2.1	NA	NA	NA	NA	NA	NA	NA
Toxaphene	N/A	NA	NA	NA	NA	NA	NA	NA

**NOTES:**  
NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
N/A - Indicates no Soil Cleanup Objective number established for that compound.  
B - Compound Found in Associated Lab Blank  
J - Estimated Value

**TABLE 3 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**TAL METALS, RCRA METALS AND CYANIDE IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC Recommended Soil Cleanup Objective PPM	FRSS-08	FRSS-09	FRSS-11	FRSS-12	FRSS-13	FRSS-14	FRSS-15
Lab Sample ID No.		AB74148	AB74135	AB74134	AB74133	AB74139	AB74152	AB74140
Depth (ft)		4"	4"	4"	4"	4"	4"	4"
Sample Type		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date		12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Aluminum	SB	NA	NA	NA	NA	NA	NA	NA
Antimony	SB	NA	NA	NA	NA	NA	NA	NA
Arsenic	7.5 or SB	<b>8.9</b>	<b>8.3</b>	6.6	ND @ 2.1	2.4	5.8	2.4
Barium	300 or SB	200	<b>320</b>	110	180	42	140	48
Beryllium	0.16	NA	NA	NA	NA	NA	NA	NA
Cadmium	1 or SB	1	<b>3.7</b>	ND @ 0.7	0.76	ND @ 0.65	<b>1.5</b>	ND @ 0.65
Calcium	SB	NA	NA	NA	NA	NA	NA	NA
Chromium	10 or SB	<b>22</b>	<b>33</b>	9.3	ND @ 5.3	9.8	<b>17</b>	9.4
Cobalt	30 or SB	NA	NA	NA	NA	NA	NA	NA
Copper	25 or SB	NA	NA	NA	NA	NA	NA	NA
Iron	2,000 or SB	NA	NA	NA	NA	NA	NA	NA
Lead	SB	550	620	310	240	37	530	53
Magnesium	SB	NA	NA	NA	NA	NA	NA	NA
Manganese	SB	NA	NA	NA	NA	NA	NA	NA
Mercury	0.1	<b>0.8</b>	<b>13</b>	<b>0.34</b>	<b>0.35</b>	ND @ 0.15	<b>0.96</b>	ND @ 0.15
Nickel	13 or SB	NA	NA	NA	NA	NA	NA	NA
Potassium	SB	NA	NA	NA	NA	NA	NA	NA
Selenium	2 or SB	ND @ 2.2	ND @ 2.8	ND @ 2.3	ND @ 2.1	ND @ 2.2	ND @ 2.3	ND @ 2.2
Silver	SB	ND @ 2.8	ND @ 3.5	ND @ 2.9	ND @ 2.7	ND @ 2.7	ND @ 2.9	ND @ 2.7
Sodium	SB	NA	NA	NA	NA	NA	NA	NA
Thallium	SB	NA	NA	NA	NA	NA	NA	NA
Vanadium	150 or SB	NA	NA	NA	NA	NA	NA	NA
Zinc	20 or SB	NA	NA	NA	NA	NA	NA	NA
Cyanide	***	ND @ 0.28	0.93	0.41	ND @ 0.26	ND @ 0.27	ND @ 0.28	ND @ 0.27

**NOTES:**  
NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
N/A - Indicates no Soil Cleanup Objective number established for that compound.  
B - Compound Found in Associated Lab Blank  
J - Estimated Value



**TABLE 3 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**TAL METALS, RCRA METALS AND CYANIDE IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRSS-01	FRSS-01 (MS)	FRSS-01 (MSD)	FRSS-02	FRSS-03	FRSS-04	FRSS-05	FRSS-06	FRSS-07
Lab Sample ID No.	Recommended	AB74141	AB74142	AB74153	AB74151	AB74145	AB74150	AB74146	AB74149	AB74147
Depth (ft)	Soil	4"	4"	4"	4"	6"	4"	6"	4"	6"
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02	12/2/02
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Aluminum	SB	NA	NA	NA	NA	NA	3800	NA	NA	NA
Antimony	SB	NA	NA	NA	NA	NA	ND @ 2.2	NA	NA	NA
Arsenic	7.5 or SB	3.4	53	56	4.9	3.3	5.5	ND @ 2.1	6.2	ND @ 2.1
<b>Barium</b>	300 or SB	99	99	130	<b>320</b>	55	210	ND @ 10	<b>490</b>	21
Beryllium	0.16	NA	NA	NA	NA	NA	ND @ 0.67	NA	NA	NA
<b>Cadmium</b>	1 or SB	ND @ 0.67	50	50	<b>1.2</b>	ND @ 0.67	<b>1.2</b>	ND @ 0.62	<b>1.3</b>	ND @ 0.62
Calcium	SB	NA	NA	NA	NA	NA	<b>21000</b>	NA	NA	NA
<b>Chromium</b>	10 or SB	<b>14</b>	60	65	<b>15</b>	<b>12</b>	<b>15</b>	ND @ 5.2	<b>17</b>	8.4
Cobalt	30 or SB	NA	NA	NA	NA	NA	3	NA	NA	NA
<b>Copper</b>	25 or SB	NA	NA	NA	NA	NA	<b>520</b>	NA	NA	NA
<b>Iron</b>	2,000 or SB	NA	NA	NA	NA	NA	<b>13000</b>	NA	NA	NA
Lead	SB	160	150	200	690	94	690	9.8	750	38
Magnesium	SB	NA	NA	NA	N	NA	9400	NA	NA	NA
Manganese	SB	NA	NA	NA	NA	NA	140	NA	NA	NA
<b>Mercury</b>	0.1	<b>0.6</b>	2.4	2.7	<b>0.5</b>	ND @ 0.16	<b>0.5</b>	ND @ 0.15	<b>0.7</b>	<b>0.18</b>
Nickel	13 or SB	NA	NA	NA	NA	NA	9.4	NA	NA	NA
Potassium	SB	NA	NA	NA	NA	NA	ND @ 500	NA	NA	NA
Selenium	2 or SB	ND @ 2.2	48	48	ND @ 2.2	ND @ 2.2	ND @ 2.2	ND @ 2.1	ND @ 2.2	ND @ 2.1
Silver	SB	ND @ 2.8	51	50	ND @ 2.8	ND @ 2.8	ND @ 2.8	ND @ 2.6	ND @ 2.7	ND @ 2.6
Sodium	SB	NA	NA	NA	NA	NA	ND @ 560	NA	NA	NA
Thallium	SB	NA	NA	NA	NA	NA	ND @ 1.3	NA	NA	NA
Vanadium	150 or SB	NA	NA	NA	NA	NA	20	NA	NA	NA
<b>Zinc</b>	20 or SB	NA	NA	NA	NA	NA	<b>280</b>	NA	NA	NA
Cyanide	***	ND @ 0.28	5.7	5.3	0.29	0.46	ND @ 0.28	0.27	ND @ 0.27	0.27

**NOTES:**

NA - Not Analyzed

ND - Non Detected at Method Detection Limit

N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank

J - Estimated Value

**TABLE 4**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**TEST TRENCH SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRTT - 01	FRTT - 02	FRTT - 03	FRTT - 04
Lab Sample ID No.	Recommended	AB74443	AB74444	AB74445	AB74406
Depth (ft)	Soil	5' - 5.5'	2' - 3'	5' - 5.5'	5' - 5.5'
Sample Type	Cleanup	SOIL	SOIL	SOIL	SOIL
Sample Date	Objective	12/2/02	12/2/02	12/2/02	12/5/02
Units	PPM	PPM	PPM	PPM	PPM
SEMI-VOLATILE ORGANIC COMPOUNDS					
1,2,4-Trichlorobenzene	N/A	ND @ 0.38	ND @ 1.2	ND @ 5.3	ND @ 0.74
1,3-Dichlorobenzene	N/A	ND @ 0.38	ND @ 1.2	ND @ 5.3	ND @ 0.74
2,4-Dinitrotoluene	N/A	ND @ 0.38	ND @ 1.2	ND @ 5.3	ND @ 0.74
2-Methylnaphthalene	N/A	ND @ 0.38	0.19 J	1.6 J	0.15 J
Acenaphthene	50	ND @ 0.38	0.38 J	1.1 J	0.13 J
Acenaphthylene	41	0.66	ND @ 1.2	4.7 J	0.27 J
Anthracene	50	0.082 J	1.2	5.8	0.51 J
<b>Benzo[a]anthracene</b>	0.224 or MDL	0.07 J	<b>2.3</b>	<b>17</b>	<b>1.8</b>
<b>Benzo[a]pyrene</b>	0.061 or MDL	<b>0.24 J</b>	<b>2.1</b>	<b>14</b>	<b>1.8</b>
<b>Benzo[b]fluoranthene</b>	1.1	0.26 J	<b>3.3</b>	<b>25</b>	<b>2.9</b>
Benzo[g,h,l]perylene	50	0.78	0.78 J	4.1 J	0.7 J
<b>Benzo[k]fluoranthene</b>	1.1	0.09 J	1 J	<b>6.4</b>	<b>1.1</b>
Butylbenzylphthalate	50	ND @ 0.38	ND @ 1.2	ND @ 5.3	ND @ 0.74
Bis(2-Ethylhexyl)phthalate	50	0.24 JB	0.36 JB	ND @ 5.3	0.32 JB
Carbazole	N/A	ND @ 0.38	0.67 J	3.1 J	0.18 J
<b>Chrysene</b>	0.4	0.07 J	<b>2.3</b>	<b>17</b>	<b>1.8</b>
<b>Dibenzo[a,h]Anthracene</b>	0.014 or MDL	ND @ 0.38	<b>0.39 J</b>	<b>0.79 J</b>	<b>0.3 J</b>
Dibenzofuran	6.2	ND @ 0.38	0.33 J	3.1 J	0.078 J
Di-n-butylphthalate	8.1	0.78 J	ND @ 1.2	ND @ 5.3	ND @ 0.74
Di-n-octylphthalate	50	0.042 J	ND @ 1.2	ND @ 5.3	ND @ 0.74
Fluoranthene	50	0.11 J	5.1	33	2.9
Fluorene	50	ND @ 0.38	0.39 J	5.6	0.17 J
<b>Indeno[1,2,3-cd]pyrene</b>	3.2	0.45	0.88 J	<b>4.8 J</b>	0.72 J
Isophorone	4.4	ND @ 0.38	ND @ 1.2	ND @ 5.3	ND @ 0.74
Naphthalene	13	ND @ 0.38	0.27 J	2.6 J	0.61 J
Phenanthrene	50	0.043 J	4.8	28	1.8
Pyrene	50	0.17 J	4.1	28	3.3
<b>Total Non-Targeted SVO's</b>	N/A	39.40 J	43.71 J	128.3 J	38.29 J

**NOTES:**

NA - Not Analyzed

ND - Non Detected at Method Detection Limit

N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank

J - Estimated Value

**TABLE 4 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**TEST TRENCH SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC Recommended Soil Cleanup Objective PPM	FRTT - 01	FRTT - 02	FRTT - 03	FRT - 04
Lab Sample ID No.		AB74443	AB74444	AB74445	AB74406
Depth (ft)		5' - 5.5'	2' - 3'	5' - 5.5'	5' - 5.5'
SampleType		SOIL	SOIL	SOIL	SOIL
Sample Date		12/2/02	12/2/02	12/2/02	12/5/02
Units		PPM	PPM	PPM	PPM
VOLATILE ORGANIC COMPOUNDS					
1,1,1-Trichloroethane	0.8	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
1,1,2,2-Tetrachloroethane	0.6	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
1,1,2-Trichloroethane	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
1,1-Dichloroethane	0.2	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
1,1-Dichloroethene	0.4	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
1,2-Dichloroethane	0.1	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
1,2-Dichloropropane	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
2-Butanone	0.3	ND @ 0.029	ND @ 0.03	ND @ 0.04	ND @ 0.028
2-Chloroethylvinylether	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
2-Hexanone	N/A	ND @ 0.023	ND @ 0.024	ND @ 0.032	ND @ 0.022
4-Methyl-2-Pentanone	1	ND @ 0.023	ND @ 0.006	ND @ 0.032	ND @ 0.022
Acetone	0.2	ND @ 0.023	ND @ 0.006	ND @ 0.032	ND @ 0.022
Acrolein	N/A	ND @ 0.017	ND @ 0.018	ND @ 0.024	ND @ 0.017
Acrylonitrile	N/A	ND @ 0.008	ND @ 0.0083	ND @ 0.011	ND @ 0.0077
Benzene	0.06	ND @ 0.0011	ND @ 0.0012	ND @ 0.016	0.0019
Bromodichloromethane	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Bromoform	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Bromomethane	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Carbon Disulfide	2.7	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Carbon tetrachloride	0.6	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Chlorobenzene	1.7	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Chloroethane	1.9	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Chloroform	0.3	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Chloromethane	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Cis-1,2-Dichloroethene	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Cis-1,3-Dichloropropene	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Dibromochlormethane	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Ethylbenzene	5.5	ND @ 0.0011	ND @ 0.0012	ND @ 0.0016	ND @ 0.0011
Methylene Chloride	0.1	0.0073 B	0.0071 B	0.0074 JB	0.006 B
Styrene	N/A	ND @ 0.0011	ND @ 0.0012	ND @ 0.0016	ND @ 0.0011
Tetrachloroethene	1.4	ND @ 0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Toluene	1.5	ND @ 0.0011	ND @ 0.0012	0.003	0.0051
Trans-1,2-Dichloroethene	0.3	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Trans-1,3-Dichloropropene	N/A	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Trichloroethene	0.7	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Vinyl Chloride	0.2	ND @0.0057	ND @ 0.006	ND @ 0.0079	ND @ 0.0056
Xylenes	1.2	ND	ND	ND	ND
Total Non-Targeted VOC's	N/A	ND	ND	ND	ND

**NOTES:**

NA - Not Analyzed

ND - Non Detected at Method Detection Limit

N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank

J - Estimated Value

**TABLE 4 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**TEST TRENCH SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**PCB'S AND PESTICIDES IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC Recommended Soil Cleanup Objective PPM	FRTT - 01	FRTT - 02	FRTT - 03	FRTT - 04
Lab Sample ID No.		AB74443	AB74444	AB74445	AB74406
Depth (ft)		5' - 5.5'	2' - 3'	5' - 5.5'	5' - 5.5'
SampleType		SOIL	SOIL	SOIL	SOIL
Sample Date		12/2/02	12/2/02	12/2/02	12/5/02
Units		PPM	PPM	PPM	PPM
PCB'S					
Aroclor - 1016	1/10	NA	NA	ND @ 0.04	NA
Aroclor - 1221	1/10	NA	NA	ND @ 0.04	NA
Aroclor - 1232	1/10	NA	NA	ND @ 0.04	NA
Aroclor - 1242	1/10	NA	NA	ND @ 0.04	NA
Aroclor - 1248	1/10	NA	NA	ND @ 0.04	NA
Aroclor - 1254	1/10	NA	NA	ND @ 0.04	NA
Aroclor - 1260	1/10	NA	NA	ND @ 0.04	NA
PESTICIDES					
Aldrin	0.041	NA	NA	ND @ 0.0079	NA
Aplha-BHC	0.11	NA	NA	ND @ 0.0079	NA
Beta-BHC	0.2	NA	NA	ND @ 0.0079	NA
Chlordane	0.54	NA	NA	ND @ 0.016	NA
Delta-BHC	0.3	NA	NA	ND @ 0.0079	NA
Dieldrin	0.044	NA	NA	ND @ 0.0079	NA
Endosulfan I	0.9	NA	NA	ND @ 0.0079	NA
Endosulfan II	0.9	NA	NA	ND @ 0.0079	NA
Endosulfan Sulfate	1	NA	NA	ND @ 0.0079	NA
Endrin	0.1	NA	NA	ND @ 0.0079	NA
Endrin Aldehyde	N/A	NA	NA	ND @ 0.0079	NA
Endrin Ketone	N/A	NA	NA	0.029	NA
Gamma-BHC	0.06	NA	NA	ND @ 0.0079	NA
Heptachlor	0.1	NA	NA	ND @ 0.0079	NA
Heptachlor Epoxide	0.02	NA	NA	ND @ 0.0079	NA
Methoxychlor	N/A	NA	NA	0.120	NA
P,P'-DDD	2.9	NA	NA	ND @ 0.0079	NA
P,P'-DDE	2.1	NA	NA	ND @ 0.0079	NA
P,P'-DDT	2.1	NA	NA	ND @ 0.0079	NA
Toxaphene	N/A	NA	NA	ND @ 0.0079	NA

**NOTES:**

NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank  
J - Estimated Value

**TABLE 4 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**TEST TRENCH SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**  
**TAL METALS, RCRA METALS AND CYANIDE IN SOIL**  
**DECEMBER 2002**

Sample Number	NYSDEC Recommended Soil Cleanup Objective PPM	FRTT - 01	FRTT - 02	FRTT - 03	FRTT - 04
Lab Sample ID No.		AB74443	AB74444	AB74445	AB74406
Depth (ft)		5' - 5.5'	2' - 3'	5' - 5.5'	5' - 5.5'
SampleType		SOIL	SOIL	SOIL	SOIL
Sample Date		12/2/02	12/2/02	12/2/02	12/5/02
Units		PPM	PPM	PPM	PPM
Aluminum	SB	NA	NA	12000	NA
Antimony	SB	NA	NA	6.6	NA
Arsenic	7.5 or SB	ND @ 2.3	27	21	10
Barium	300 or SB	36	3600	540	330
Beryllium	0.16	NA	NA	ND @ 0.95	NA
Cadmium	1 or SB	ND @ 0.69	26	2.3	1.2
Calcium	SB	NA	NA	5600	NA
Chromium	10 or SB	13	88	32	21
Cobalt	30 or SB	NA	NA	9.1	NA
Copper	25 or SB	NA	NA	240	NA
Iron	2,000 or SB	NA	NA	31000	NA
Lead	SB	11	71000	1600	3700
Magnesium	SB	NA	NA	1800	NA
Manganese	SB	NA	NA	240	NA
Mercury	0.1	ND @ 0.16	2.9	1.6	0.58
Nickel	13 or SB	NA	NA	28	NA
Potassium	SB	NA	NA	ND @ 790	NA
Selenium	2 or SB	ND @ 2.3	6.7	8.6	3.7
Silver	SB	ND @ 2.9	43	ND @ 4	ND @ 2.8
Sodium	SB	NA	NA	ND @ 790	NA
Thallium	SB	NA	NA	ND @ 1.9	NA
Vanadium	150 or SB	NA	NA	44	NA
Zinc	20 or SB	NA	NA	1100	NA
Cyanide	***	ND @ 0.29	ND @ 0.3	0.61	ND @ 0.28

**NOTES:**  
NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
\*\*\* = Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence are very unstable,  
Site-specific form(s) of Cyanide should be taken into consideration when establishing soil cleanup objective.  
N/A - Indicates no Soil Cleanup Objective number established for that compound.

B - Compound Found in Associated Lab Blank  
J - Estimated Value

**TABLE 5**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**SOIL VAPOR SAMPLE ANALYTICAL RESULTS SUMMARY**  
**DECEMBER 2002**

COMPOUND	Mol. Wt.	Soil Vapor Concentration (ppb)				
		FRSV-01	FRSV-02	FRSV-03	FRSV-04	FRSV-06
<b>Propene</b>	42.08	<b>5.2</b>	<b>14</b>	<b>5.5</b>	<b>21</b>	<b>21</b>
<b>Dichlorodifluoromethane (Freon 12)</b>	120.9	ND	ND	<b>13</b>	<b>25</b>	<b>24</b>
Chloromethane	50.49	ND	ND	ND	ND	ND
1,2-Dichlorotetrafluoroethane (Freon 114)	170.9	ND	ND	ND	ND	ND
Vinyl chloride	62.5	ND	ND	ND	ND	ND
1,3-Butadiene	54.09	ND	ND	ND	ND	ND
Bromomethane	94.95	ND	ND	ND	ND	ND
Chloroethane	64.52	ND	ND	ND	ND	ND
<b>Acetone</b>	58.1	ND	<b>26</b>	<b>11</b>	ND	ND
<b>Trichlorofluoromethane (Freon 11)</b>	137.38	<b>0.63</b>	ND	<b>4.4</b>	<b>2.6</b>	<b>2.4</b>
Ethanol (Ethyl alcohol)	46.1	ND	ND	ND	ND	ND
1,1-Dichloroethene	96.94	ND	ND	ND	ND	ND
<b>Methylene chloride (dichloromethane)</b>	84.9	<b>4.1</b>	<b>1.5</b>	<b>1.2</b>	<b>0.87</b>	<b>1.2</b>
1,1,2-Trichlorotrifluoroethane (Freon 113)	187.39	ND	ND	ND	ND	ND
Carbon disulfide	76.1	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	96.94	ND	ND	ND	ND	ND
1,1-Dichloroethane	98.96	ND	ND	ND	ND	ND
MTBE (Methyl tert butyl ether)	88.15	ND	ND	ND	ND	ND
<b>Isopropyl alcohol</b>	60.09	<b>5.9</b>	ND	ND	ND	<b>2</b>
2-Butanone (MEK)	72.11	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	96.94	ND	ND	ND	ND	ND
<b>Hexane</b>	86.2	<b>1.9</b>	ND	<b>1.1</b>	<b>12</b>	ND
Vinyl acetate	86.09	ND	ND	ND	ND	ND
Ethyl acetate	88.1	ND	ND	ND	ND	ND
<b>Chloroform</b>	119.39	<b>1.6</b>	ND	ND	ND	ND
<b>Tetrahydrofuran</b>	72.1	<b>0.94</b>	ND	ND	ND	ND
Ethylene dichloride (1,2-dichloroethane)	99.0	ND	ND	ND	ND	ND
<b>1,1,1-Trichloroethane (Methyl chloroform)</b>	133.42	ND	<b>1.1</b>	ND	<b>0.53</b>	<b>0.99</b>
<b>Benzene</b>	78.1	<b>1.1</b>	<b>1.9</b>	<b>18</b>	ND	<b>0.65</b>
<b>Carbon tetrachloride</b>	153.84	<b>0.65</b>	ND	ND	ND	ND
Cyclohexane	84.2	ND	ND	ND	ND	ND
1,2-Dibromopropane	231.9	ND	ND	ND	ND	ND
Bromodichloromethane	163.8	ND	ND	ND	ND	ND
Trichloroethylene	131.4	ND	ND	ND	ND	ND
<b>Heptane</b>	100.2	<b>0.98</b>	ND	ND	ND	ND
<b>4-Methyl-2-pentanone (MIBK)</b>	100.2	ND	ND	ND	ND	<b>0.57</b>
cis-1,3-Dichloropropene	111.0	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	111.0	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	133.4	ND	ND	ND	ND	ND
<b>Toluene</b>	92.1	<b>22</b>	ND	<b>8</b>	ND	ND
2-Hexanone (MBK)	100.6	ND	ND	ND	ND	ND
Dibromochloromethane	208.3	ND	ND	ND	ND	ND
Ethylene dibromide (1,2-dibromoethane)	187.87	ND	ND	ND	ND	ND
<b>Tetrachloroethene</b>	165.82	ND	ND	<b>2.6</b>	ND	ND
Chlorobenzene	112.6	ND	ND	ND	ND	ND
Ethylbenzene	106.2	ND	ND	ND	ND	ND
M/P-Xylene	106.2	ND	ND	ND	ND	ND
Styrene	104.14	ND	ND	ND	ND	ND
O-Xylene	106.2	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	167.86	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	120.2	ND	ND	ND	ND	ND
4-Ethyltoluene	121.3	ND	ND	ND	ND	ND
<b>1,2,4-Trimethylbenzene</b>	120.2	ND	ND	ND	ND	<b>0.55</b>
1,3-Dichlorobenzene	147.0	ND	ND	ND	ND	ND
Benzyl chloride	126.58	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	147.0	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	147.0	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	181.5	ND	ND	ND	ND	ND
Hexachlorobutadiene	260.7	ND	ND	ND	ND	ND
<b>Napthalene (semi-volatile compound)</b>	128.17	ND	ND	<b>1.4</b>	ND	<b>3.6</b>
<b>Total VOC</b>		<b>45</b>	<b>44.5</b>	<b>64.8</b>	<b>62</b>	<b>53.4</b>

**TABLE 6**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**QUALITY ASSURANCE/QUALITY CONTROL BLANKS ANALYTICAL RESULTS SUMMARY**  
**SEMI-VOLATILE ORGANIC COMPOUNDS**  
**DECEMBER 2002**

Sample Number	FB120202	STB120202	WTB120202	FB120402	STB120402	WTB120402	FB120502	STB120502
Lab Sample ID No.	AB74138	AB74158	AB74159	AB74453	AB74452	AB74455	AB74454	AB74407
Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date	12/2/02	12/2/02	12/2/02	12/4/02	12/4/02	12/4/02	12/5/02	12/5/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
1,2,4-Trichlorobenzene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
1,3-Dichlorobenzene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
2,4-Dinitrotoluene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
2-Methylnaphthalene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Acenaphthene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Acenaphthylene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Anthracene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Benzo[a]anthracene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Benzo[a]pyrene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Benzo[b]fluoranthene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Benzo[g,h,i]perylene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Benzo[k]fluoranthene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Butylbenzylphalate	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Bis(2-Ethylhexyl)phthalate	1.3 JB	NA	NA	3.4 JB	NA	NA	2.2 JB	NA
Carbazole	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Chrysene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Dibenzo[a,h]Anthracene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Dibenzofuran	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Di-n-butylphalate	ND @ 10	NA	NA	2.5 JB	NA	NA	4.4 JB	NA
Di-n-octylphthalate	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Fluoranthene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Fluorene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Indeno[1,2,3-cd]pyrene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Isophorone	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Naphthalene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Phenanthrene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
Pyrene	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA
<b>Total Non-Targeted BN's</b>	68 J	NA	NA	22.2 J	NA	NA	22.5 J	NA

**NOTES:**

ND - Non Detected at Method Detection Limit  
J - Estimated Value

B - Compound Found in Associated Lab Blank  
NA - Not Analyzed

**TABLE 6 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**QUALITY ASSURANCE/QUALITY CONTROL BLANKS ANALYTICAL RESULTS SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS**  
**DECEMBER 2002**

Sample Number	FB120202	STB120202	WTB120202	FB120402	STB120402	WTB120402	FB120502	STB120502
Lab Sample ID No.	AB74138	AB74158	AB74159	AB74453	AB74452	AB74455	AB74454	AB74407
Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date	12/2/02	12/2/02	12/2/02	12/4/02	12/4/02	12/4/02	12/5/02	12/5/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
VOLATILE ORGANIC COMPOUNDS								
1,1,1-Trichloroethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,1,2,2-Tetrachloroethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,1,2-Trichloroethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,1-Dichloroethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,1-Dichloroethene	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,2-Dichloroethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,2-Dichloropropane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
2-Butanone	ND @ 25	ND @ 25	ND @ 25	ND @ 25	ND @ 25	ND @ 25	ND @ 25	ND @ 25
2-Chloroethylvinylether	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
2-Hexanone	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20
4-Methyl-2-Pentanone	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20
Acetone	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20
Acrolein	ND @ 15	ND @ 15	ND @ 15	ND @ 15	ND @ 15	ND @ 15	ND @ 15	ND @ 15
Acrylonitrile	ND @ 6.9	ND @ 6.9	ND @ 6.9	ND @ 6.9	ND @ 6.9	ND @ 6.9	ND @ 6.9	ND @ 6.9
Benzene	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1
Bromodichloromethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Bromoform	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Bromomethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Carbon Disulfide	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Carbon tetrachloride	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Chlorobenzene	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Chloroethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Chloroform	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Chloromethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Cis-1,2-Dichloroethene	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Cis-1,3-Dichloropropene	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Dibromochloromethane	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Ethylbenzene	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1
Methylene Chloride	ND @ 5	ND @ 5	ND @ 5	1.2 J	ND @ 5	ND @ 5	1.3 J	ND @ 5
Styrene	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1
Tetrachloroethene	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Toluene	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1
Trans-1,2-Dichloroethene	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Trans-1,3-Dichloropropene	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Trichloroethene	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Vinyl Chloride	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Xylenes	ND	ND	ND	ND	ND	ND	ND	ND
Total Non-Targeted VOC's	ND	ND	ND	ND	ND	ND	ND	ND

**NOTES:**

ND - Non Detected at Method Detection Limit

J - Estimated Value

B - Compound Found in Associated Lab Blank

NA - Not Analyzed



**TABLE 6 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**QUALITY ASSURANCE/QUALITY CONTROL BLANKS ANALYTICAL RESULTS SUMMARY**  
**PCB'S AND PESTICIDES**  
**DECEMBER 2002**

<b>Sample Number</b>	FB120202	STB120202	WTB120202	FB120402	STB120402	WTB120402	FB120502	STB120502
<b>Lab Sample ID No.</b>	AB74138	AB74158	AB74159	AB74453	AB74452	AB74455	AB74454	AB74407
<b>SampleType</b>	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
<b>Sample Date</b>	12/2/02	12/2/02	12/2/02	12/4/02	12/4/02	12/4/02	12/5/02	12/5/02
<b>Units</b>	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<b>PCB'S</b>								
Aroclor - 1016	ND @ 0.5	NA	NA	ND @ 0.5	NA	NA	NA	NA
Aroclor - 1221	ND @ 0.5	NA	NA	ND @ 0.5	NA	NA	NA	NA
Aroclor - 1232	ND @ 0.5	NA	NA	ND @ 0.5	NA	NA	NA	NA
Aroclor - 1242	ND @ 0.5	NA	NA	ND @ 0.5	NA	NA	NA	NA
Aroclor - 1248	ND @ 0.5	NA	NA	ND @ 0.5	NA	NA	NA	NA
Aroclor - 1254	ND @ 0.5	NA	NA	ND @ 0.5	NA	NA	NA	NA
Aroclor - 1260	ND @ 0.5	NA	NA	ND @ 0.5	NA	NA	NA	NA
<b>PESTICIDES</b>								
Aldrin	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Aplha-BHC	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Beta-BHC	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Chlordane	ND @ 0.2	NA	NA	ND @ 0.2	NA	NA	NA	NA
Delta-BHC	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Dieldrin	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Endosulfan I	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Endosulfan II	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Endosulfan Sulfate	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Endrin	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Endrin Aldehyde	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Endrin Ketone	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Gamma-BHC	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Heptachlor	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Heptachlor Epoxide	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Methoxychlor	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
P,P'-DDD	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
P,P'-DDE	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
P,P'-DDT	ND @ 0.1	NA	NA	ND @ 0.1	NA	NA	NA	NA
Toxaphene	ND @ 1	NA	NA	ND @ 1	NA	NA	NA	NA

**NOTES:**

ND - Non Detected at Method Detection Limit

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J - Estimated Value

NA - Not Analyzed

**TABLE 6 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**QUALITY ASSURANCE/QUALITY CONTROL BLANKS ANALYTICAL RESULTS SUMMARY**  
**TAL METALS, RCRA METALS AND CYANIDE**  
**DECEMBER 2002**

Sample Number	FB120202	STB120202	WTB120202	FB120402	STB120402	WTB120402	FB120502	STB120502
Lab Sample ID No.	AB74138	AB74158	AB74159	AB74453	AB74452	AB74455	AB74454	AB74407
Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date	12/2/02	12/2/02	12/2/02	12/4/02	12/4/02	12/4/02	12/5/02	12/5/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Aluminum	ND @ 2000	NA	NA	ND @ 180	NA	NA	NA	NA
Antimony	ND @ 20	NA	NA	ND @ 15	NA	NA	NA	NA
Arsenic	ND @ 20	NA	NA	ND @ 7.5	NA	NA	ND @ 7.5	NA
Barium	ND @ 100	NA	NA	ND @ 50	NA	NA	ND @ 50	NA
Beryllium	ND @ 6	NA	NA	ND @ 4	NA	NA	NA	NA
Cadmium	ND @ 6	NA	NA	ND @ 3.5	NA	NA	ND @ 3.5	NA
Calcium	ND @ 10000	NA	NA	ND @ 2000	NA	NA	NA	NA
Chromium	ND @ 50	NA	NA	ND @ 50	NA	NA	ND @ 50	NA
Cobalt	ND @ 25	NA	NA	ND @ 20	NA	NA	NA	NA
Copper	ND @ 50	NA	NA	ND @ 50	NA	NA	NA	NA
Iron	ND @ 2000	NA	NA	ND @ 280	NA	NA	NA	NA
Lead	ND @ 50	NA	NA	ND @ 5	NA	NA	ND @ 5	NA
Magnesium	ND @ 5000	NA	NA	ND @ 2000	NA	NA	NA	NA
Manganese	ND @ 100	NA	NA	ND @ 40	NA	NA	NA	NA
Mercury	ND @ 0.85	NA	NA	ND @ 0.7	NA	NA	ND @ 0.7	NA
Nickel	ND @ 50	NA	NA	ND @ 50	NA	NA	NA	NA
Potassium	ND @ 5000	NA	NA	ND @ 5000	NA	NA	NA	NA
Selenium	ND @ 20	NA	NA	ND @ 40	NA	NA	ND @ 40	NA
Silver	ND @ 25	NA	NA	ND @ 20	NA	NA	ND @ 20	NA
Sodium	ND @ 5000	NA	NA	ND @ 5000	NA	NA	NA	NA
Thallium	ND @ 20	NA	NA	ND @ 100	NA	NA	NA	NA
Vanadium	ND @ 100	NA	NA	ND @ 50	NA	NA	NA	NA
Zinc	ND @ 100	NA	NA	ND @ 50	NA	NA	NA	NA
Cyanide	ND @ 10	NA	NA	ND @ 10	NA	NA	ND @ 10	NA

**NOTES:**

ND - Non Detected at Method Detection Limit

J - Estimated Value

B - Compound Found in Associated Lab Blank

NA - Not Analyzed

**TABLE 7**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY**  
**SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER**  
**DECEMBER 2002**

Sample Number	NYS DEC Groundwater Standards Criteria PPB	FRGW - 01	FRGW - 02	FRGW - 03	FRGW - 03(MS)	FRGW - 03(MSD)	FRGW-05	FRGW-06	FRGW-07	FRGW - 08	FB121202
Lab Sample ID No.		AB74904	AB74905	AB74907	AB74908	AB74909	AB74910	AB74911	AB74903	AB74912	AB74906
Sample Type		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date		12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SEMI-VOLATILE ORGANIC COMPOUNDS											
1,2,4-Trichlorobenzene	N/A	ND @ 10	ND @ 200	ND @ 200	78	71	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
1,2-Dichlorobenzene	N/A	ND @ 10	ND @ 200	ND @ 200	76	68	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
1,2-Diphenylhydrazine	N/A	ND @ 10	ND @ 200	ND @ 200	85	82	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
1,3-Dichlorobenzene	N/A	ND @ 10	ND @ 200	ND @ 200	77	68	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
1,4-Dichlorobenzene	N/A	ND @ 10	ND @ 200	ND @ 200	76	69	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2,4,6-Trichlorophenol	N/A	ND @ 10	ND @ 200	ND @ 200	69	73	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2,4-Dichlorophenol	1	ND @ 10	ND @ 200	ND @ 200	66	65	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2,4-Dimethylphenol	N/A	ND @ 10	ND @ 200	ND @ 200	75	76	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2,4-Dinitrotoluene	N/A	ND @ 10	ND @ 200	ND @ 200	60	62	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2,6-Dinitrotoluene	5	ND @ 10	ND @ 200	ND @ 200	72	70	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2-Chloronaphthalene	N/A	ND @ 10	ND @ 200	ND @ 200	72	71	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2-Chlorophenol	50	ND @ 10	ND @ 200	ND @ 200	65	62	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2-Methylnaphthalene	50	ND @ 10	87 J	70 J	66 J	72 J	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
2-Nitrophenol	5	ND @ 10	ND @ 200	ND @ 200	65	62	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
3,3'-Dichlorobenzidine	N/A	ND @ 10	ND @ 200	ND @ 200	59 J	56 J	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
4,6-Dinitro-2-methylphenol	N/A	ND @ 10	ND @ 200	ND @ 200	35	34	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
4-Bromophenyl-phenylether	N/A	ND @ 10	ND @ 200	ND @ 200	77	74	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
4-Chloro-3-methylphenol	5	NA	NA	NA	ND @ 7.6	69	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	N/A	ND @ 10	ND @ 200	ND @ 200	74	73	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
4-Nitrophenol	5	NA	NA	NA	ND @ 5.4	29	NA	NA	NA	NA	NA
Acenaphthene	20	ND @ 10	ND @ 200	ND @ 200	88	89	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Acenaphthylene	20	ND @ 10	ND @ 200	30 J	98	110	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Anthracene	50	ND @ 10	ND @ 200	ND @ 200	73	74	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Benzo(a)anthracene	0.002	ND @ 10	ND @ 200	ND @ 200	80	78	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Benzo(a)pyrene	0.002 (ND)	ND @ 10	ND @ 200	ND @ 200	67	66	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Benzo(b)fluoranthene	0.002	ND @ 10	ND @ 200	ND @ 200	66	67	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Benzo(g,h,i)perylene	5	ND @ 10	ND @ 200	ND @ 200	65	66	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Benzo(k)fluoranthene	0.002	ND @ 10	ND @ 200	ND @ 200	76	72	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Bis(2-Chloroethoxy)methane	N/A	ND @ 10	ND @ 200	ND @ 200	78	76	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Bis(2-Chloroethyl)Ether	N/A	ND @ 10	ND @ 200	ND @ 200	70	71	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10

**NOTES:**

NA - Not Analyzed

B - Compound Found in Associated Lab Blank

J - Estimated Value

ND - Non Detected at Method Detection Limit

N/A - Indicates that Standards Criteria is not available.

**TABLE 7 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY**  
**SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER**  
**DECEMBER 2002**

Sample Number	NYS DEC	FRGW - 01	FRGW - 02	FRGW - 03	FRGW - 03(MS)	FRGW - 03(MSD)	FRGW-05	FRGW-06	FRGW-07	FRGW - 08	FB121202
Lab Sample ID No.	Groundwater	AB74904	AB74905	AB74907	AB74908	AB74909	AB74910	AB74911	AB74903	AB74912	AB74906
Sample Type	Standards	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date	Criteria	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SEMI-VOLATILE ORGANIC COMPOUNDS											
Bis(2-Chloroisopropyl)ether	N/A	ND @ 10	ND @ 200	ND @ 200	78	82	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Bis(2-Ethylhexyl)phthalate	50	1.9 JB	ND @ 200	ND @ 200	72 B	67 B	1.4 JB	1.2 JB	2.3 JB	1.5 JB	1.6 JB
Butylbenzylphthalate	50	ND @ 10	ND @ 200	ND @ 200	72	69	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Carbazole	N/A	ND @ 10	ND @ 200	ND @ 200	ND @ 7.8	ND @ 7.8	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Chrysene	0.002	ND @ 10	ND @ 200	ND @ 200	88	86	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Dibenzo(a,h)Anthracene	50	ND @ 10	ND @ 200	ND @ 200	60	54	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Diethylphthalate	50	ND @ 10	ND @ 200	ND @ 200	74	74	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Dimethylphthalate	50	ND @ 10	ND @ 200	ND @ 200	76	77	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Di-n-butylphthalate	50	1.4 JB	ND @ 200	ND @ 200	74	73	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Di-n-octylphthalate	50	ND @ 10	ND @ 200	ND @ 200	56	53	ND @ 10	ND @ 10	1.4 JB	ND @ 10	ND @ 10
Fluoranthene	50	ND @ 10	ND @ 200	ND @ 200	78	76	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Fluorene	50	ND @ 10	ND @ 200	ND @ 200	83	84	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Hexachlorobenzene	0.35	ND @ 10	ND @ 200	ND @ 200	80	75	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Hexachlorobutadiene	N/A	ND @ 10	ND @ 200	ND @ 200	77	78	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Hexachloroethane	N/A	ND @ 10	ND @ 200	ND @ 200	80	79	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Indeno(1,2,3-cd)pyrene	0.002	ND @ 10	ND @ 200	ND @ 200	63	65	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Isophorone	50	ND @ 10	ND @ 200	ND @ 200	70	69	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
<b>Naphthalene</b>	10	ND @ 10	<b>1600</b>	<b>3200</b>	3200	3300	7.5 J	4 J	ND @ 10	6.1 J	ND @ 10
Nitrobenzene	5	ND @ 10	ND @ 200	ND @ 200	85	75	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
N-Nitrosodimethylamine	N/A	ND @ 10	ND @ 200	ND @ 200	41	39	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
N-Nitroso-Di-N-Propylamine	N/A	ND @ 10	ND @ 200	ND @ 200	69	66	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
N-Nitrosodiphenylamine	N/A	ND @ 10	ND @ 200	ND @ 200	71	68	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Pentachlorophenol	1	ND @ 10	ND @ 200	ND @ 200	30	29	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Phenanthrene	50	ND @ 10	ND @ 200	ND @ 200	98	97	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Phenol	1	ND @ 10	ND @ 200	ND @ 200	30	30	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Pyrene	50	ND @ 10	ND @ 200	ND @ 200	86	82	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10
Total Non-Targeted SVO's	N/A	272 J	2072 J	42930 J	30310 J	28520 J	138.3 J	98.9 J	221.8 J	288.9 J	135.6 J

**NOTES:**  
NA - Not Analyzed  
J - Estimated Value  
N/A - Indicates that Standards Criteria is not available.  
B - Compound Found in Associated Lab Blank  
ND - Non Detected at Method Detection Limit

**TABLE 7 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER**  
**DECEMBER 2002**

Sample Number	NYS DEC	FRGW - 01	FRGW - 02	FRGW - 03	FRGW - 03(MS)	FRGW - 03(MSD)	FRGW-05	FRGW - 06	FRGW - 07	FRGW - 08	FB121202	TB121202
Lab Sample ID No.	Groundwater	AB74904	AB74905	SB74907	AB74908	AB74909	AB74910	AB74911	AB74903	AB74912	AB74906	AB74913
Sample Type	Standards	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date	Criteria	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
VOLATILE ORGANIC COMPOUNDS												
1,1,1-Trichloroethane	5	ND @ 5	ND @ 50	ND @ 2500	23	23	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,1,2,2-Tetrachloroethane	5	ND @ 5	ND @ 50	ND @ 2500	19	18	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,1,2-Trichloroethane	N/A	ND @ 5	ND @ 50	ND @ 2500	21	19	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,1-Dichloroethane	5	ND @ 5	ND @ 50	ND @ 2500	20	21	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,1-Dichloroethene	5	ND @ 5	ND @ 50	ND @ 2500	23	23	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,2-Dichloroethane	5	ND @ 5	ND @ 50	ND @ 2500	23	23	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
1,2-Dichloropropane	N/A	ND @ 5	ND @ 50	ND @ 2500	20	19	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
2-Butanone	50	ND @ 25	ND @ 250	ND @ 13000	16	9.9 J	ND @ 25	ND @ 25	ND @ 25	ND @ 25	ND @ 25	ND @ 25
2-Chloroethylvinylether	N/A	ND @ 5	ND @ 50	ND @ 2500	13	13	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
2-Hexanone	N/A	ND @ 20	ND @ 200	ND @ 10000	18	19 J	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20
4-Methyl-2-Pentanone	50	ND @ 20	ND @ 200	ND @ 10000	19	17 J	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20
Acetone	50	ND @ 20	ND @ 200	ND @ 10000	89	98	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20
Acrolein	N/A	ND @ 15	ND @ 150	ND @ 7500	59	58	ND @ 15	ND @ 15	ND @ 15	ND @ 15	ND @ 15	ND @ 15
Acrylonitrile	N/A	ND @ 6.9	ND @ 69	ND @ 3500	88	85	ND @ 6.9	ND @ 6.9	ND @ 6.9	ND @ 6.9	ND @ 6.9	ND @ 6.9
<b>Benzene</b>	0.7	ND @ 1	ND @ 10	<b>540</b>	10000	10000	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1
Bromodichloromethane	N/A	ND @ 5	ND @ 50	ND @ 2500	22	22	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Bromoform	N/A	ND @ 5	ND @ 50	ND @ 2500	17	17	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Bromomethane	N/A	ND @ 5	ND @ 50	ND @ 2500	24	23	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5

**NOTES:**  
NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
N/A - Indicates that Standards Criteria is not available.  
B - Compound Found in Associated Lab Blank  
J - Estimated Value

**TABLE 7 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER**  
**DECEMBER 2002**

Sample Number	NYS DEC	FRGW - 01	FRGW - 02	FRGW - 03	FRGW - 03(MS)	FRGW - 03(MSD)	FRGW-05	FRGW - 06	FRGW - 07	FRGW - 08	FB121202	TB121202
Lab Sample ID No.	Groundwater Standards Criteria PPB	AB74904	AB74905	AB74907	AB74908	AB74909	AB74910	AB74911	AB74903	AB74912	AB74906	AB74913
Sample Type		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date		12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
VOLATILE ORGANIC COMPOUNDS												
Carbon Disulfide	50	ND @ 5	ND @ 50	ND @ 2500	20	21	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Carbon tetrachloride	5	ND @ 5	ND @ 50	ND @ 2500	24	25	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Chlorobenzene	5	ND @ 5	ND @ 50	ND @ 2500	20	19	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Chloroethane	50	ND @ 5	ND @ 50	ND @ 2500	21	24	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Chloroform	7	ND @ 5	ND @ 50	ND @ 2500	22	23	ND @ 5	ND @ 5	5 J	ND @ 5	ND @ 5	ND @ 5
Chloromethane	N/A	ND @ 5	ND @ 50	ND @ 2500	20	20	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Cis-1,2-Dichloroethene	N/A	ND @ 5	ND @ 50	ND @ 2500	18	20	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Cis-1,3-Dichloropropene	N/A	ND @ 5	ND @ 50	ND @ 2500	18	18	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Dibromochloromethane	50	ND @ 5	ND @ 50	ND @ 2500	21	20	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
<b>Ethylbenzene</b>	5	ND @ 1	<b>41</b>	<b>1900</b>	12000	11000	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1
Methylene Chloride	5	ND @ 5	ND @ 50	ND @ 2500	21	21	ND @ 5	ND @ 5	ND @ 5	ND @ 5	1.6 J	1.8 J
Styrene	N/A	ND @ 1	ND @ 10	6000	18000	18000	3.4	ND @ 1	ND @ 1	ND @ 1	ND @ 1	ND @ 1
Tetrachloroethene	5	ND @ 5	ND @ 50	ND @ 2500	20	19	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
<b>Toluene</b>	5	ND @ 1	ND @ 10	<b>24000</b>	42000	40000	<b>27</b>	<b>11</b>	ND @ 1	<b>6.4</b>	1.2	ND @ 1
Trans-1,2-Dichloroethene	5	ND @ 5	ND @ 50	ND @ 2500	21	22	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Trans-1,3-Dichloropropene	N/A	ND @ 5	ND @ 50	ND @ 2500	18	18	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Trichloroethene	5	ND @ 5	ND @ 50	ND @ 2500	20	21	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Vinyl Chloride	2	ND @ 5	ND @ 50	ND @ 2500	20	23	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
<b>Xylenes</b>	5	ND @ 5	<b>29</b>	<b>4200</b>	37000	36000	2.5	1.4 J	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Total Non-Targeted VOC's	N/A	ND	518 J	9400 J	5100 J	8000 J	3.1 J	ND	ND	6.9 J	ND	3.3 J

**NOTES:**  
NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
N/A - Indicates that Standards Criteria is not available.  
B - Compound Found in Associated Lab Blank  
J - Estimated Value

**TABLE 7 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY**  
**PCB'S AND PESTICIDES IN GROUNDWATER**  
**DECEMBER 2002**

Sample Number	NYSDEC	FRGW - 01	FRGW - 02	FRGW - 03	FRGW - 03(MS)	FRGW - 03(MSD)	FRGW - 05	FRGW - 06	FRGW - 07	FRGW - 08	FB121202
Lab Sample ID No.	Groundwater	AB74904	AB74905	AB74907	AB74908	AB74909	AB74910	AB74911	AB74903	AB74912	AB74906
Sample Type	Standards	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date	Criteria	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
PCB'S											
Aroclor - 1016	0.1	NA	NA	ND @ 0.5	15	15	NA	NA	NA	NA	ND@0.5
Aroclor - 1221	0.1	NA	NA	ND @ 0.5	ND @ 1.1	ND @ 1.1	NA	NA	NA	NA	ND@0.5
Aroclor - 1232	0.1	NA	NA	ND @ 0.5	ND @ 1.1	ND @ 1.1	NA	NA	NA	NA	ND@0.5
Aroclor - 1242	0.1	NA	NA	ND @ 0.5	ND @ 1.1	ND @ 1.1	NA	NA	NA	NA	ND@0.5
Aroclor - 1248	0.1	NA	NA	ND @ 0.5	ND @ 1.1	ND @ 1.1	NA	NA	NA	NA	ND@0.5
Aroclor - 1254	0.1	NA	NA	ND @ 0.5	ND @ 1.1	ND @ 1.1	NA	NA	NA	NA	ND@0.5
Aroclor - 1260	0.1	NA	NA	ND @ 0.5	16	17	NA	NA	NA	NA	ND@0.5
PESTICIDES											
Aldrin	ND (<0.01)	NA	NA	ND @ 0.1	2.1	2.1	NA	NA	NA	NA	ND@0.1
Aplha-BHC	ND (<0.05)	NA	NA	ND @ 0.1	2.2	2.1	NA	NA	NA	NA	ND@0.1
Beta-BHC	ND (<0.05)	NA	NA	ND @ 0.1	1.9	1.8	NA	NA	NA	NA	ND@0.2
Chlordane	0.1	NA	NA	ND @ 0.2	ND @ 0.44	ND @ 0.44	NA	NA	NA	NA	ND@0.1
Delta-BHC	ND (<0.05)	NA	NA	ND @ 0.1	2.2	2.2	NA	NA	NA	NA	ND@0.1
Dieldrin	ND (<0.01)	NA	NA	ND @ 0.1	1.9	1.9	NA	NA	NA	NA	ND@0.1
Endosulfan I	0.1	NA	NA	ND @ 0.1	2.1	2	NA	NA	NA	NA	ND@0.1
Endosulfan II	0.1	NA	NA	ND @ 0.1	2.2	2.2	NA	NA	NA	NA	ND@0.1
Endosulfan Sulfate	0.1	NA	NA	ND @ 0.1	2.5	2.4	NA	NA	NA	NA	ND@0.1
Endrin	ND (<0.01)	NA	NA	ND @ 0.1	2.2	2.3	NA	NA	NA	NA	ND@0.1
Endrin Aldehyde	N/A	NA	NA	ND @ 0.1	2.4	2.4	NA	NA	NA	NA	ND@0.1
Endrin Ketone	N/A	NA	NA	ND @ 0.1	2.4	2.4	NA	NA	NA	NA	ND@0.1
Gamma-BHC	ND (<0.05)	NA	NA	ND @ 0.1	2.1	2.1	NA	NA	NA	NA	ND@0.1
Heptachlor	ND (<0.01)	NA	NA	ND @ 0.1	2.2	2.1	NA	NA	NA	NA	ND@0.1
Heptachlor Epoxide	ND (<0.01)	NA	NA	ND @ 0.1	2.1	2.1	NA	NA	NA	NA	ND@0.1
Methoxychlor	35	NA	NA	ND @ 0.1	2.8	2.8	NA	NA	NA	NA	ND@0.1
P,P'-DDD	ND (<0.01)	NA	NA	ND @ 0.1	2.6	2.5	NA	NA	NA	NA	ND@0.1
P,P'-DDE	ND (<0.01)	NA	NA	ND @ 0.1	2.2	2.2	NA	NA	NA	NA	ND@0.1
P,P'-DDT	ND (<0.01)	NA	NA	ND @ 0.1	2.6	2.5	NA	NA	NA	NA	ND@0.1
Toxaphene	N/A	NA	NA	ND @ 1	ND @ 2.2	ND @ 2.2	NA	NA	NA	NA	ND@1.0

**NOTES:**

NA - Not Analyzed  
ND - Non Detected at Method Detection Limit  
N/A - Indicates that Standards Criteria is not available.

B - Compound Found in Associated Lab Blank  
J - Estimated Value

**TABLE 7 (Cont.)**  
**KEYSPAN CORPORATION**  
**FAR ROCKAWAY FORMER MGP SITE**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY**  
**TAL METALS, RCRA METALS AND CYANIDE IN GROUNDWATER**  
**DECEMBER 2002**

Sample Number	NYSDEC Groundwater Standards Criteria	FRGW - 01	FRGW - 02	FRGW - 03	FRGW - 03(MS)	FRGW - 03(MSD)	FRGW - 05	FRGW - 06	FRGW - 07	FRGW - 08	FB121202
Lab Sample ID No.		AB74904	AB74905	AB74907	AB74908	AB74909	AB74910	AB74911	AB74903	AB74912	AB74906
Sample Type		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Date		12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Aluminum	N/A	NA	NA	240	5000	5700	NA	NA	NA	NA	340
Antimony	N/A	NA	NA	ND @ 15	520	500	NA	NA	NA	NA	ND @ 15
Arsenic	N/A	ND @ 7.5	ND @ 7.5	ND @ 7.5	520	510	ND @ 7.5	ND @ 7.5	ND @ 7.5	ND @ 7.5	ND @ 7.5
Barium	N/A	300	160	ND @ 50	540	520	ND @ 50	ND @ 50	ND @ 50	ND @ 50	ND @ 50
Beryllium	N/A	NA	NA	ND @ 4	500	480	NA	NA	NA	NA	ND @ 4
Cadmium	N/A	ND @ 3.5	ND @ 3.5	ND @ 3.5	510	490	ND @ 3.5	ND @ 3.5	ND @ 3.5	ND @ 3.5	ND @ 3.5
Calcium	N/A	NA	NA	46000	95000	89000	NA	NA	NA	NA	ND @ 2000
Chromium	N/A	ND @ 50	ND @ 50	ND @ 50	520	500	ND @ 50	ND @ 50	ND @ 50	ND @ 50	ND @ 50
Cobalt	N/A	NA	NA	ND @ 20	510	490	NA	NA	NA	NA	ND @ 20
Copper	N/A	NA	NA	ND @ 50	510	500	NA	NA	NA	NA	ND @ 50
Iron	N/A	NA	NA	26000	29000	27000	NA	NA	NA	NA	ND @ 280
Lead	N/A	ND @ 5.0	6.3	6.3	520	500	ND @ 5	ND @ 5	ND @ 5	ND @ 5	ND @ 5
Magnesium	N/A	NA	NA	3000	54000	51000	NA	NA	NA	NA	ND @ 2000
Manganese	N/A	NA	NA	410	900	840	NA	NA	NA	NA	ND @ 40
Mercury	N/A	ND @ 0.7	ND @ 0.7	ND @ 0.7	9.5	9.8	ND @ 0.7	ND @ 0.7	ND @ 0.7	ND @ 0.7	ND @ 0.7
Nickel	N/A	NA	NA	ND @ 50	500	480	NA	NA	NA	NA	ND @ 50
Potassium	N/A	NA	NA	5400	54000	51000	NA	NA	NA	NA	ND @ 5000
Selenium	N/A	ND @ 40	ND @ 40	ND @ 40	510	490	ND @ 40	ND @ 40	ND @ 40	ND @ 40	ND @ 40
Silver	N/A	ND @ 20	ND @ 20	ND @ 20	510	490	ND @ 20	ND @ 20	ND @ 20	ND @ 20	ND @ 20
Sodium	N/A	NA	NA	12000	61000	57000	NA	NA	NA	NA	ND @ 5000
Thallium	N/A	NA	NA	ND @ 10	510	500	NA	NA	NA	NA	ND @ 10
Vanadium	N/A	NA	NA	ND @ 50	510	490	NA	NA	NA	NA	ND @ 50
Zinc	N/A	NA	NA	ND @ 50	520	500	NA	NA	NA	NA	ND @ 50
Cyanide	N/A	ND @ 10	ND @ 10	ND @ 10	170	180	ND @ 10	ND @ 10	ND @ 10	ND @ 10	ND @ 10

**NOTES:**  
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ND - Non Detected at Method Detection Limit  
N/A - Indicates Standards Criteria is not available.  
B - Compound Found in Associated Lab Blank  
J - Estimated Value



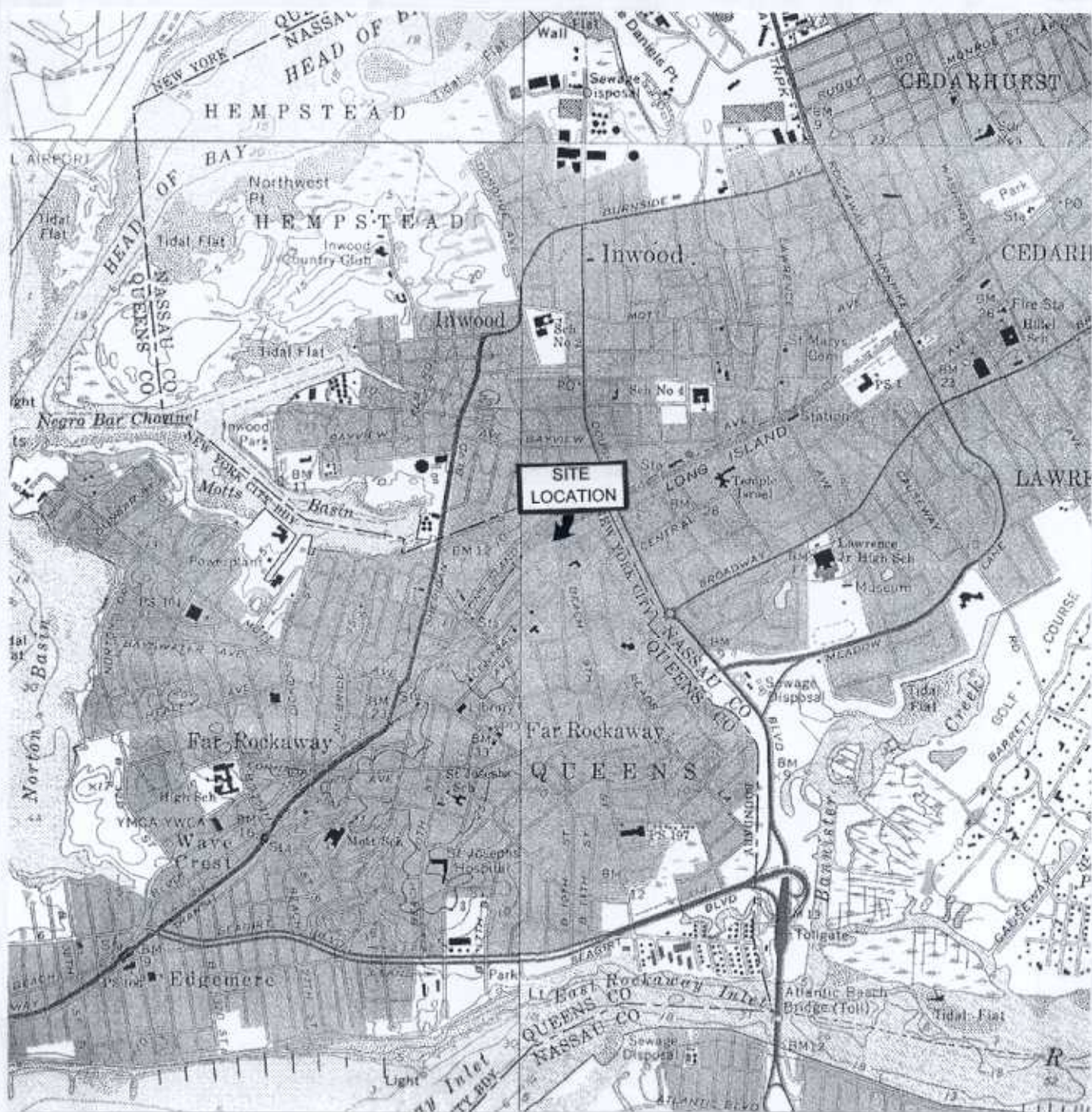
**TABLE 8**  
**FAR ROCKAWAY FORMER MGP SITE 2-41-032**  
**LABORATORY ANALYTICAL DATA SUMMARY**  
**DECEMBER 2002**

<b>MEDIA</b>	<b>CONTAMINANT OF CONCERN</b>	<b>CONCENTRATION RANGE</b>	<b>FREQUENCY OF DETECTION</b>	<b>SCG (ppm)</b>
<b>Subsurface Soil GeoProbe Samples (PPM)</b>	PAHs	ND - 63	7 of 16	
	BTEX	ND - 60	12 of 16	
	Chromium	6 - 18	7 of 16	10
	Iron	1200 - 6300	2 of 2	2,000
	Zinc	ND - 28	1 of 2	20
<b>Surface Soil Samples (PPM)</b>	PAHs	ND - 9.8	14 of 14	
	BTEX	ND - 0.0075	12 of 14	
	Arsenic	2.04 - 8.9	11 of 14	7.5
	Barium	21 - 490	13 of 14	300
	Cadmium	0.76 - 3.7	7 of 14	1
	Calcium	21000	1 of 1	SB
	Chromium	8.4 - 33	12 of 14	10
	Copper	520	1 of 1	25
	Iron	13000	1 of 1	2,000
	Mercury	0.34 - 13	10 of 14	0.1
	Zinc	280	1 of 1	20
<b>Test Trench Soil Samples (PPM)</b>	PAHs	ND - 28	4 of 4	
	BTEX	ND - 0.0051	2 of 4	
	Arsenic	10 - 27	2 of 4	7.5
	Barium	36 - 3600	4 of 4	300
	Cadmium	1.2 - 26	3 of 4	1
	Chromium	13 - 88	3 of 4	10
	Copper	240	1 of 1	25
	Iron	31000	1 of 1	2,000
	Mercury	0.58 - 2.9	3 of 4	0.1
	Nickel	28	1 of 1	13
	Selenium	3.7 - 8.6	3 of 4	2
	Zinc	1100	1 of 1	20
<b>Groundwater (PPB)</b>	PAHs	4 - 3200	5 of 7	*
	BTEX	ND - 24000	5 of 7	*
	Aluminum	240	1 of 7	*
	Barium	160 - 300	2 of 7	*
	Calcium	46000	1 of 1	*
	Iron	26000	1 of 1	*
	Lead	6.3	2 of 7	*
	Magnesium	3100	1 of 1	*
	Manganese	410	1 of 1	*
	Potassium	5400	1 of 1	*
	Sodium	12000	1 of 1	*

**TABLE 8**  
**FAR ROCKAWAY FORMER MGP SITE 2-41-032**  
**LABORATORY ANALYTICAL DATA SUMMARY**  
**DECEMBER 2002**

<b>MEDIA</b>	<b>CONTAMINANT OF CONCERN</b>	<b>CONCENTRATION RANGE</b>	<b>FREQUENCY OF DETECTION</b>	<b>SCG (ppm)</b>
<b>Soil Vapor Samples (PPBv)</b>	Propene	5.2 - 21	4 of 4	*
	Dichlorodifluoromethane (Freon 114)	ND - 25	2 of 4	*
	Acetone	ND - 26	2 of 4	*
	Trichlorofluoromethane (Freon 11)	0.63 - 4.4	3 of 4	*
	Methylene Chloride	0.87 - 4.1	4 of 4	*
	Isopropyl Alcohol	ND - 5.9	1 of 4	*
	Hexane	ND - 12	3 of 4	*
	Chloroform	ND - 1.6	1 of 4	*
	Tetrahydrofuran	ND - 0.94	1 of 4	*
	1,1,1-Trichloroethane	ND - 1.1	2 of 4	*
	Benzene	ND - 18	3 of 4	*
	Carbon Tetrachloride	ND - 0.65	1 of 4	*
	Heptane	ND - 0.98	1 of 4	*
	Toluene	ND - 22	2 of 4	*
	Tetrachloroethene	ND - 2.6	1 of 4	*
	Naphthalene	ND - 1.4	1 of 4	*

# FIGURES



**SOURCE:**

USGS TOPOGRAPHIC MAP  
7.5 MINUTE SERIES  
LAWRENCE, NY, LYNBROOK, NY  
JAMAICA, NY & FAR ROCKAWAY, NY  
QUADRANGLES

**USGS SITE LOCATION MAP**

**FAR ROCKAWAY FORMER MGP SITE  
BOROUGH OF QUEENS  
FAR ROCKAWAY, NEW YORK**

**PAULUS, SOKOLOWSKI & SARTOR ENGINEERING, PC  
Warren, New Jersey 07059**

Drn By: JRT

Scale: 1:24000

Proj. No.: 2522.006.034

Ck'd By: JMP

Date: January, 21 2003

Fig. No.: 1



[illegible]

## PLAN

## SOURCES:

Robinson Aerial Surveys, Inc.  
1901 Sanborn Fire Insurance Map

67A MOUNTAIN BOULEVARD EXTENSION  
P.O. BOX 4039  
WARREN, NEW JERSEY 07059  
PHONE: (732) 560-9700  
FAX: (732) 560-9768

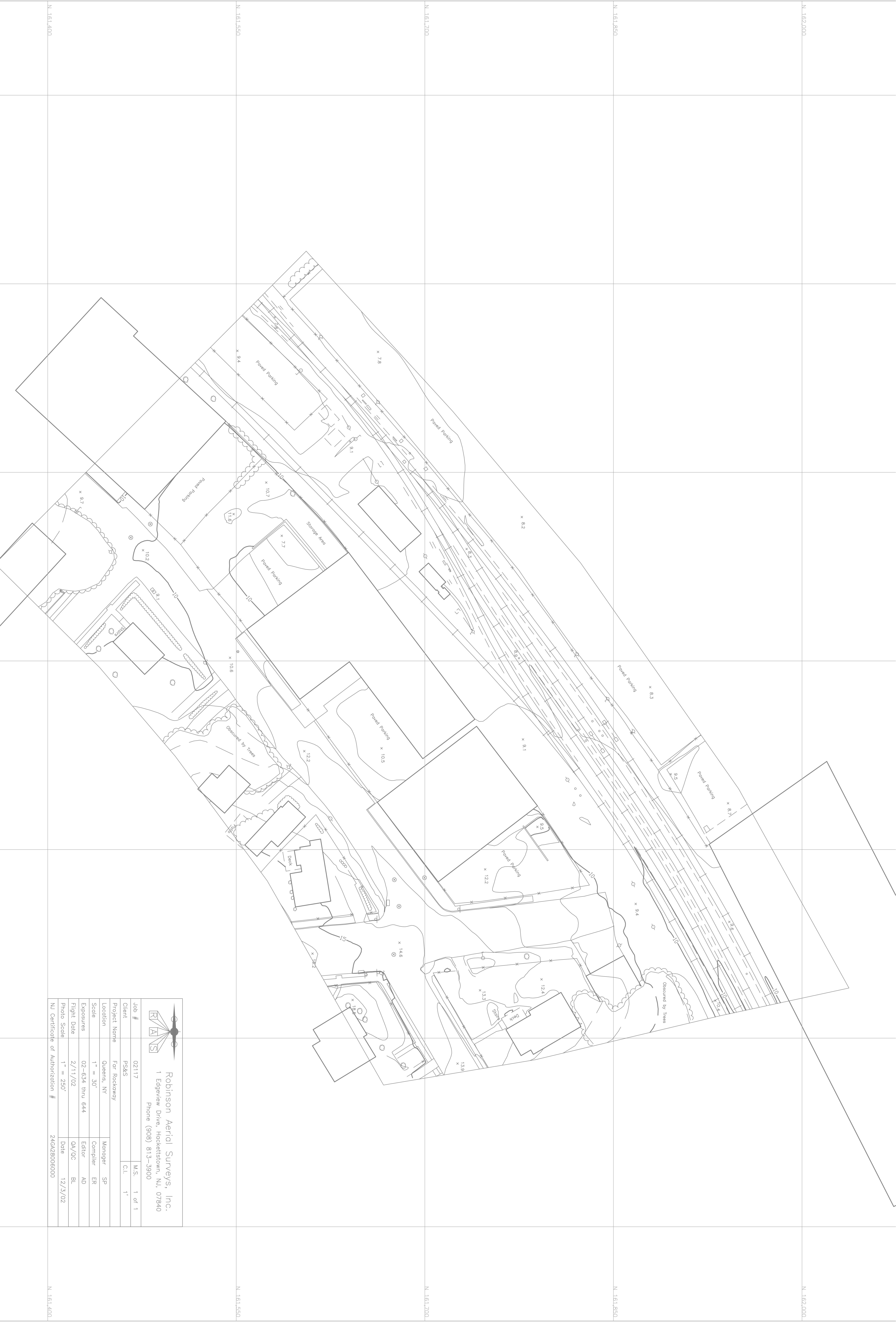
PROJECT  
FAR ROCKAWAY  
FORMER MGP SITE  
SECTION 59  
BLOCK 15529  
LOTS 102,105,110,115  
TOWNSHIP OF FAR ROCKAWAY, QUEENS COUNTY, N.Y.  
SHEET TITLE

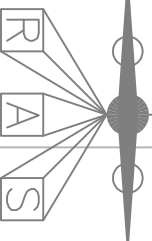
SHEET TITLE

SHEET TITLE

# GENERAL SITE PLAN

DATE	01/22/03	JOB NO.	2522-006
SCALE	1"=30'	B/O	
DRAWN	J.C.T.	FIGURE	2
CHECKED	F.C.W.		





Robinson Aerial Surveys, Inc.

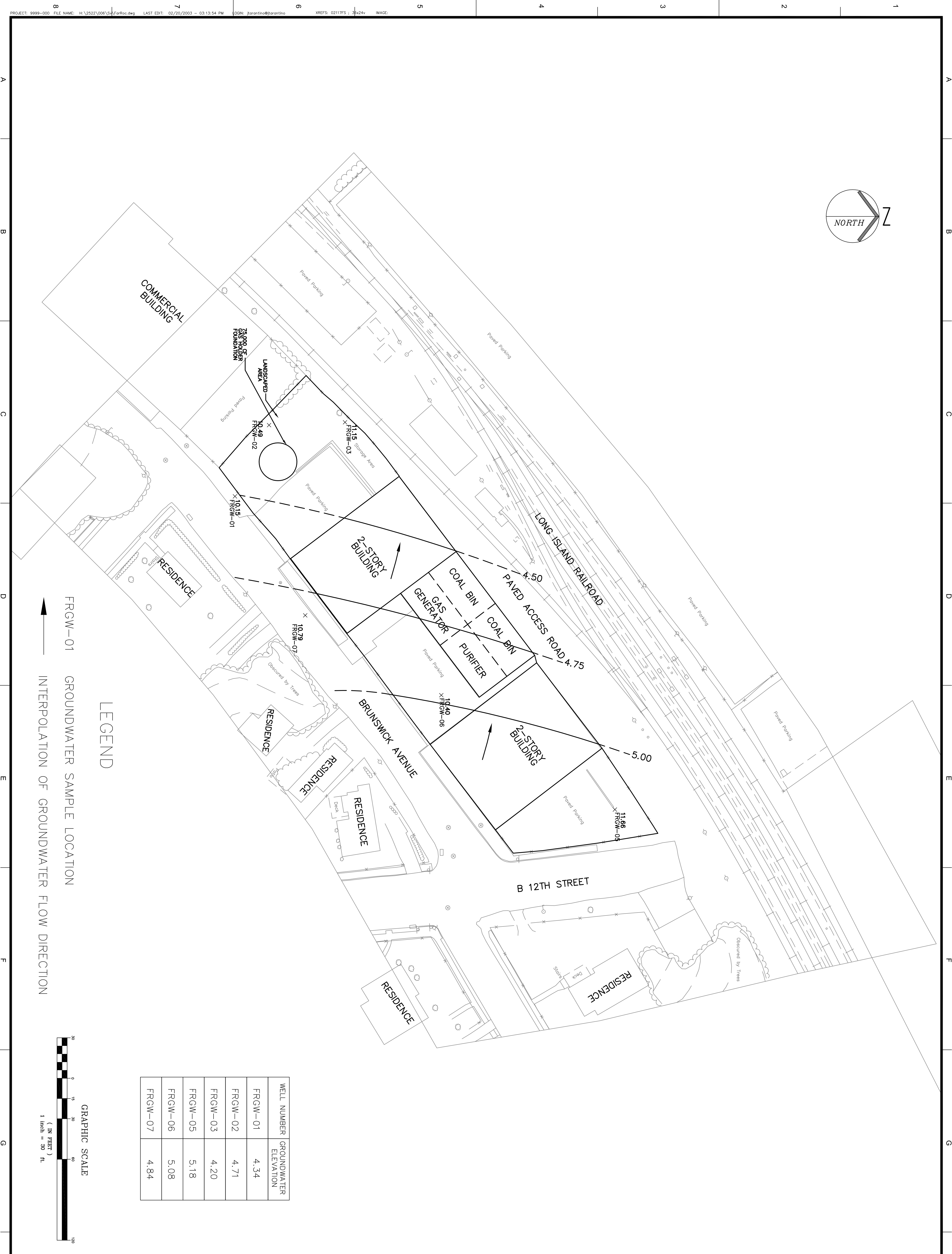
1 Edgeview Drive, Hocketsstown, NJ, 07840

Phone (908) 813-3900

Job #	02117	M.S.	1 of 1
Client	PS&S	C.L.	1"
Project Name	Far Rockaway		
Location	Queens, NY	Manager	SP
Scale	1" = 30'	Compiler	ER
Exposures	02-634 thru 644	Editor	AD
Flight Date	2/11/02	BL	
Photo Scale	1" = 250'	Date	12/3/02
NJ Certificate of Authorization #	24QA28006000		





[illegible]



## **APPENDIX A**

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### **AERIAL PHOTOGRAPHS**



## **The EDR-Aerial Photography Print Service**

**Far Rockaway Former MGP  
Brunswick Avenue/B12th Street  
Far Rockaway, NY 11697**

**December 4, 2002**

**Inquiry Number: 891213-8**

## ***The Source For Environmental Risk Management Data***

**3530 Post Road  
Southport, Connecticut 06490**

### **Nationwide Customer Service**

**Telephone: 1-800-352-0050  
Fax: 1-800-231-6802**

## Environmental Data Resources, Inc.

### Aerial Photography Print Service

Environmental Data Resources, Inc.'s (EDR) Aerial Photography Print Service is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources*. *Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-00, Section 7.3.4, page 12).

#### Aerial Photographs

Aerial photographs are a valuable historical resource for documenting past land use and can be particularly helpful when other historical sources (such as city directories or fire insurance maps) are not reasonably ascertainable. The EDR Aerial Photograph Print Service includes a search of aerial photograph collections flown by public and private agencies for the state of New York. EDR's professional field-based researchers provide digitally reproduced historical aerial photographs at approximately ten year intervals.

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# Prior Use Report® Timeline

## Target Property



### Legend:

 = Historical Topographic Map (HT)


 = National Wetland Inventory Map (WT) \*

Superscript number corresponds to graph ID in text

\*Displayed on timeline when aerial photos, flood prone, FEMA, wetland maps, or Aerial Research Summary are purchased.

 = Flood Prone/FEMA Maps (FP/FR) \*

 = Aerial Photos Included (P) \*

 = Aerial Photos Available \*

 = Residential (R)

 = Commercial or Industrial (C)

**Target Property:**

**Address:** Far Rockaway Former MGP  
Brunswick Avenue/B12th Street  
Far Rockaway, NY 11697

**Customer:** Paulus Sokolowski & Sartor  
**Contact:** John Pastorick  
**Inquiry #:** 891213-8  
**Date:** 12/04/02

#### 4. SUMMARY

- *Aerial Photographs:*

Date EDR Searched Historical Sources:  
Aerial Photography December 04, 2002

Target Property:  
Brunswick Avenue/B12th Street  
Far Rockaway, NY 11697

**PUR ID**

**Year**

**Uses**

1	
1954	Aerial Photograph. Scale: 1"=750'
2	
1966	Aerial Photograph. Scale: 1"=750'
3	
1974	Aerial Photograph. Scale: 1"=750'
4	
1984	Aerial Photograph. Scale: 1"=750'
5	
1994	Aerial Photograph. Scale: 1"=833'

**Portion-Findings**

**(FIM Information Only)**

**Source**

Panel #: 2440073-E6/Flightdate: February 23, 1954
Panel #: 2440073-E6/Flightdate: February 22, 1966
Panel #: 2440073-E6/Flightdate: April 21, 1974
Panel #: 2440073-E6/Flightdate: April 27, 1984
Panel #: 2440073-E6/Flightdate: April 8, 1994

NAR  
NAR  
NAR  
NAR  
NAR



## ***Glossary of Terms***

### **A.A.A.**

Aerial photograph flyer: Agriculture Adjustment Administration (Federal).

### **A.S.C.S**

Aerial photograph flyer: Agricultural Stabilization and Conservation Service (Federal)

### **Address in Research Source**

Indicates that a property is listed at a different address than the one provided by the user. Generally occurs when a property is located on a corner or, when the physical address of a property is different than its mailing address.

### **Address Not Listed in Research Source**

Occurs when a specific site address is not listed in city directories and/or fire insurance maps.

### **Adjoining**

Any property that is contiguous, or a property that would be contiguous if not for a public thoroughfare, to the target property. *To differentiate from each adjoining property, stand at the target property's "front door" facing the street.*

### **Adjoining Back**

Property directly to the rear of the target property. (Applies only to fire insurance map data.)

### **Adjoining Front**

Property directly in front of the target property. (Applies only to fire insurance map data.)

### **Adjoining Left**

Property directly to the left of the target property. (Applies only to fire insurance map data.)

### **Adjoining Right**

Property directly to the right of the target property. (Applies only to fire insurance map data.)

### **Adjoining Surrounding Area**

Property that may adjoin the target property but due to lack of specific map information cannot be located precisely. This situation typically occurs when city directory information, but not fire insurance map information, is available.

### **C.A.S**

Aerial photograph flyer: Chicago Aerial Survey (private).

### **C.S.S.**

Aerial photograph flyer: Commodity Stabilization Service (Federal).

### **Cartwright**

Aerial photograph flyer: Cartwright (private)

### **CD**

City Directory

**Commercial**

Any property including, but not limited to, property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units.

**Commercial or Industrial**

Property that has either a commercial *or* an industrial use. Examples include retail stores, manufacturing facilities, factories, and apartment buildings.

**D.N.R.**

Aerial photograph flyer: Department of National Resources (state).

**D.O.T.**

Aerial photograph flyer: Department of Transportation (state).

**Fairchild**

Aerial photograph flyer: Fairchild (private).

**FIM**

Fire Insurance Map

**Flood Insurance Rate Maps**

Flood Insurance Rate Maps are produced by the Federal Emergency Management Agency (FEMA). These maps indicate special flood hazard areas, base flood elevations and flood insurance risk zones.

**Flood Prone Area Maps**

Flood Prone Area maps are produced by the United States Geological Survey (USGS). Areas identified as flood prone have been determined by available information gathered from past floods.

**F.S.**

Aerial photograph flyer: Forest Service (Federal).

**Geonex**

Aerial photograph flyer: Geonex (private).

**M.C.**

Aerial photograph flyer: Metropolitan Council of the Twin Cities Area (state).

**Mark Hurd**

Aerial photograph flyer: Mark Hurd (private)

**N.A.P.P.**

Aerial photograph flyer: National Aerial Photography Program (Federal).



**National Wetland Inventory Maps**

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a division of the U.S. Department of the Interior. Wetland and deepwater habitat information is identified on a 7.5 minute U.S.G.S. topographic map. The classification system used categorizes these habitats into five systems: marine, estuarine, riverine, lacustrine and palustrine.

**No Return**

Indicates that site owner was unavailable at time of surveyor's contact. (*Applies only to city directories.*)

**No Structure Identified on Parcel**

Used when site boundaries and/or site address is indicated on a fire insurance map; no structure details exist.

**Other**

Occurs when the site's classification is different than EDR's standard categories. Examples may include undeveloped land and buildings with no specified function.

**P.M.A.**

Aerial photograph flyer: Production and Marketing Administration (Federal).

**Pacific Aerial**

Aerial photograph flyer: Pacific Aerial (private)

**Portion**

Refers to the fire insurance map information identified on the four quadrants of a target or adjoining property. The portions are referred to as *Frontright*, *Frontleft*, *Backright*, and *Backleft* and are determined as if one were standing at the front door, facing the street.

**Property Not Defined**

Used when property is not clearly demarcated on a fire insurance map.

**Residential**

Any property having fewer than five dwelling units used exclusively for residential purposes.

**Residential with Commercial Uses (a.k.a. Multiple Purpose Address)**

A business (firm) and residence at the same address. Examples include a doctor, attorney, etc. working out of his/her home.

**Sidwell**

Aerial photograph flyer: Sidwell (private).

**Site Not Mapped**

Occurs when an adjoining property has not been mapped by fire insurance map surveyors. (*Applies only to fire insurance map data*)

**Teledyne**

Aerial photograph flyer: Teledyne (private)

**Topographic Maps**

Topographic maps are produced by the United States Geological Survey (USGS). These maps are color coded line and symbol representations of natural and selected artificial features plotted to scale.

**Turnbow**

Aerial photograph flyer: Michael Turnbow (private)

**U.S.D.A.**

Aerial photograph flyer: United States Department of Agriculture (Federal).

**U.S.D.I.**

Aerial photograph flyer: United States Department of the Interior (Federal).

**U.S.G.S.**

Aerial photograph flyer: United States Geological Survey (Federal).

**Vacant**

May refer to an unoccupied structure or land. *Used only when fire insurance map or city directory specifies 'vacant.'*

**W.P.A.**

Aerial photograph flyer: Works Progress Administration (Federal).

**WALLACE**

Aerial photograph flyer: Wallace (private).

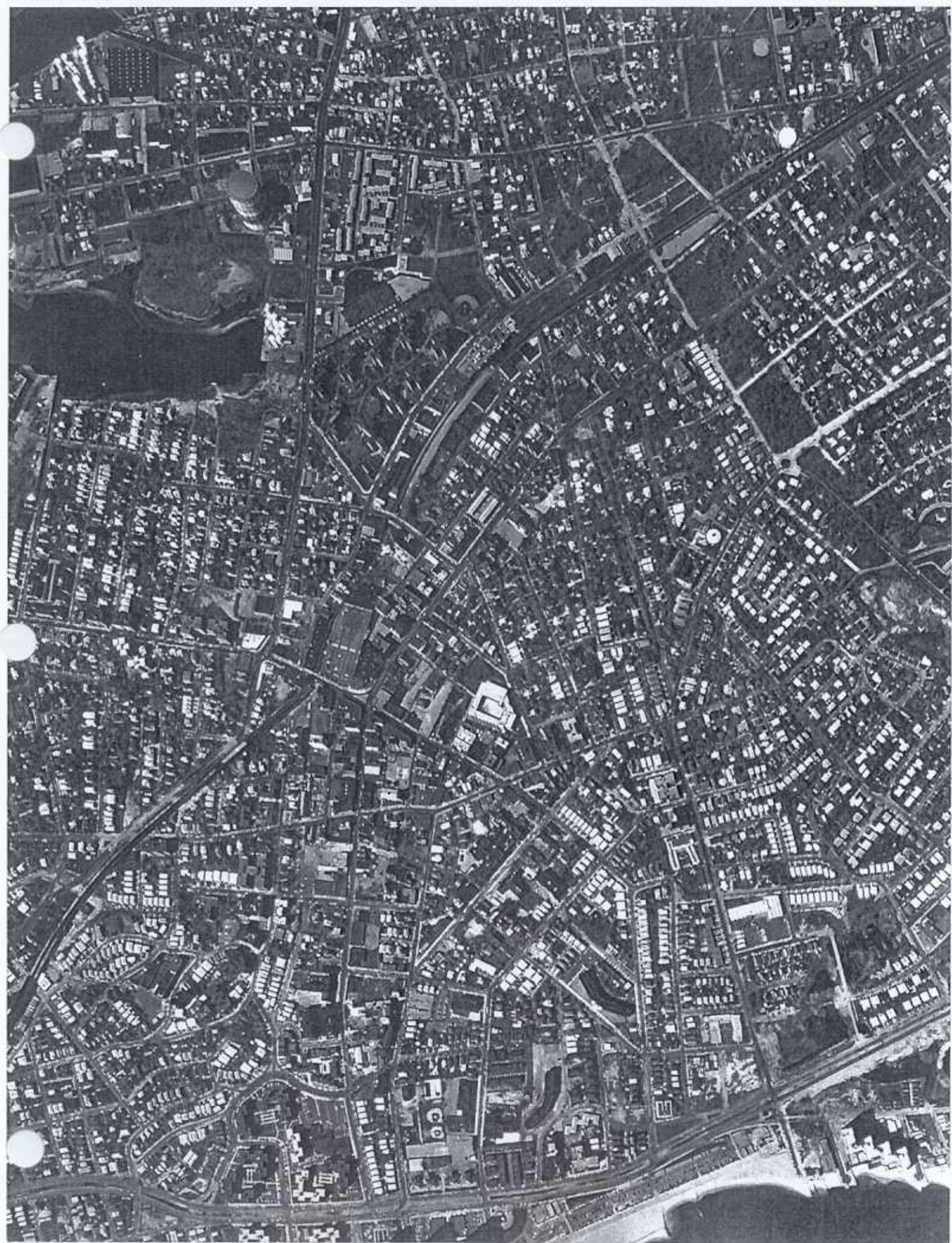




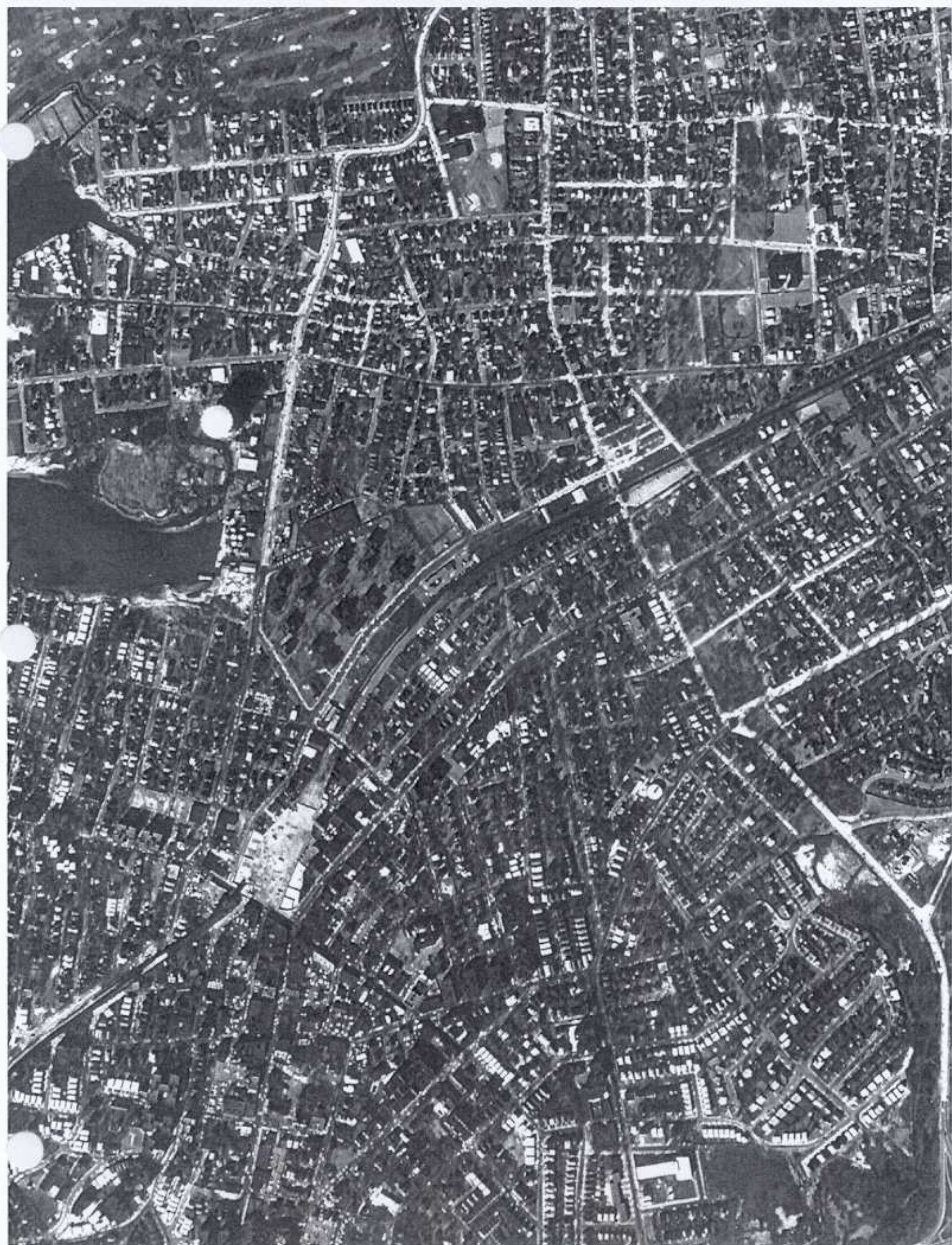
















## **APPENDIX B**

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### **SANBORN FIRE INSURANCE MAPS**



"Linking Technology with Tradition"

## Sanborn® Map Report

**Ship to:** John Pastorick

Paulus Sokolowski & Sartor

67 Mountain Boulevard Ext.

Warren, NJ 07059

**Order Date:** 12/3/2002

**Completion Date:** 12/04/2002

**Inquiry #:** 891213.4s

**P.O. #:** NA

**Site Name:** Far Rockaway Former MGP

**Address:** Brunswick Avenue/B12th Street

**City/State:** Far Rockaway, NY 11697

**Cross Streets:** Minton Avenue

1019194DJV

732-560-9700

Based on client-supplied information, fire insurance maps for the following years were identified

1901 - 1 - map	1986 - 1 - map	1996 - 1 - map
1912 - 1 - map	1987 - 1 - map	
1933 - 1 - map	1988 - 1 - map	
1951 - 1 - map	1990 - 1 - map	
1981 - 1 - map	1991 - 1 - map	
1982 - 1 - map	1992 - 1 - map	
1983 - 1 - map	1993 - 1 - map	
1985 - 1 - map	1995 - 1 - map	

Ship to: John Pastorick

Paulus Sokolowski

67 Mountain Boulevard Ext.

Warren, NJ 07059

Completion Date: 12/04/2002

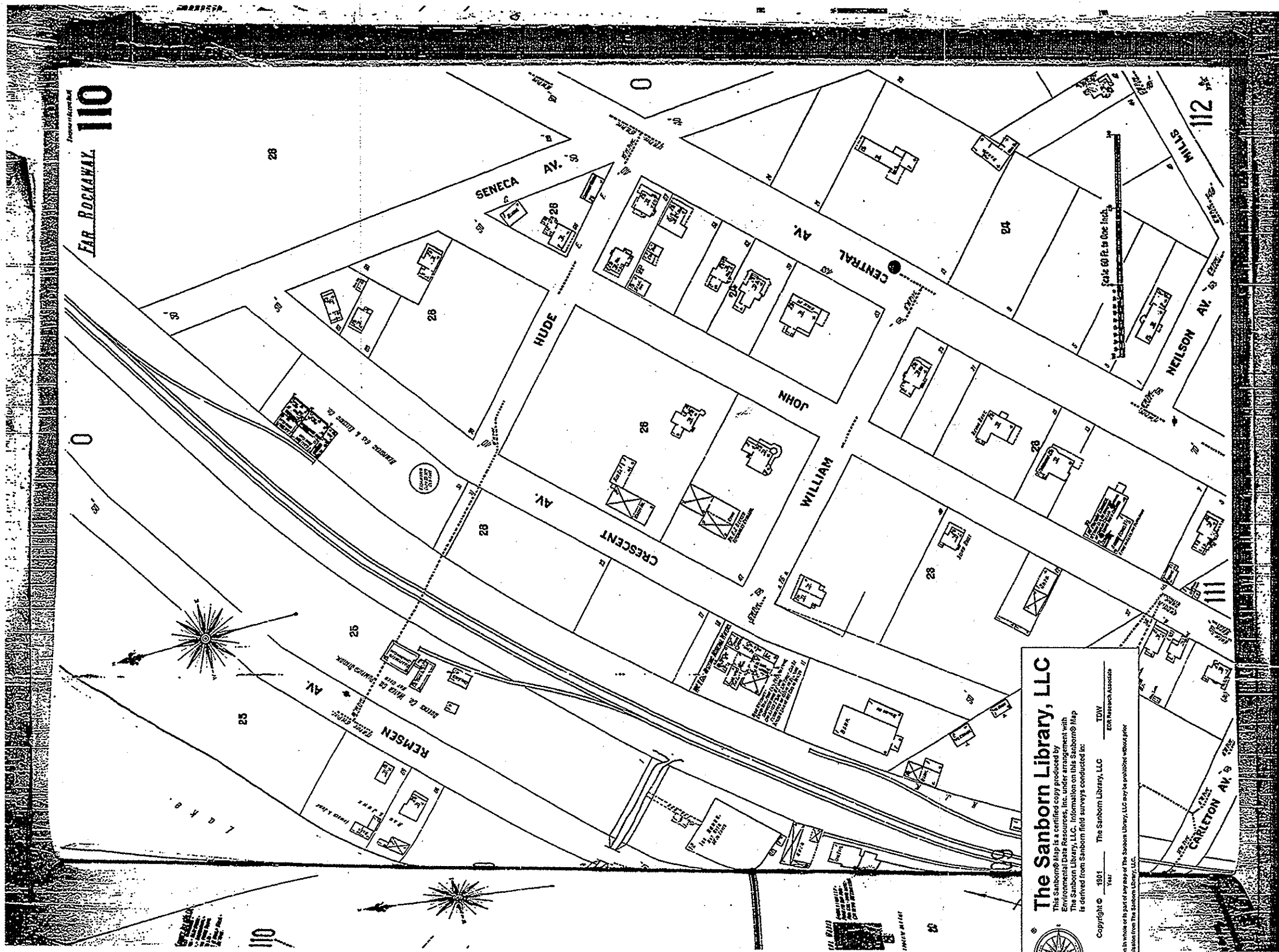
Total Maps: 17

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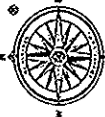
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110  
FAR ROCKAWAY

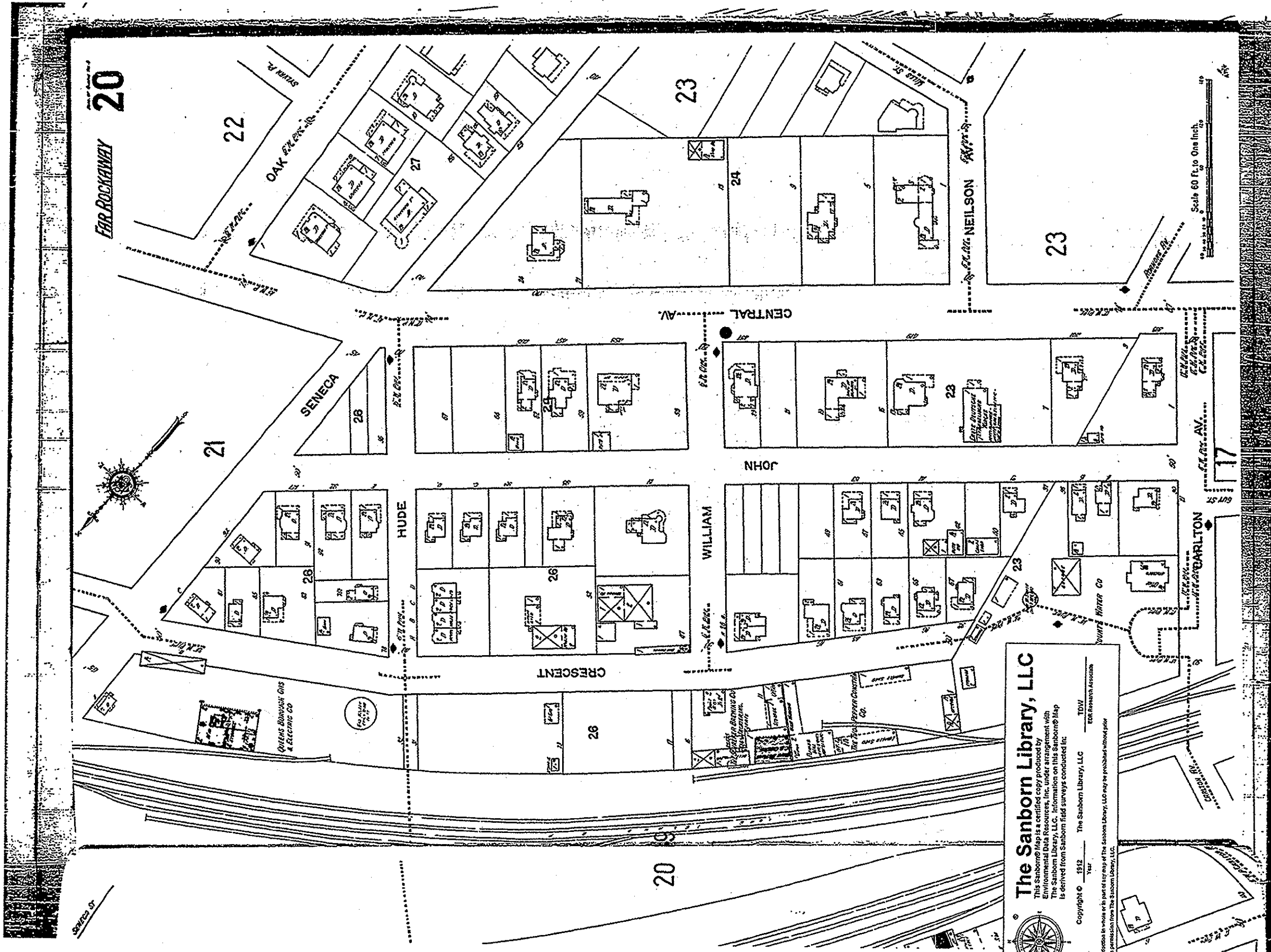
112  
MILLS

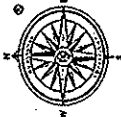


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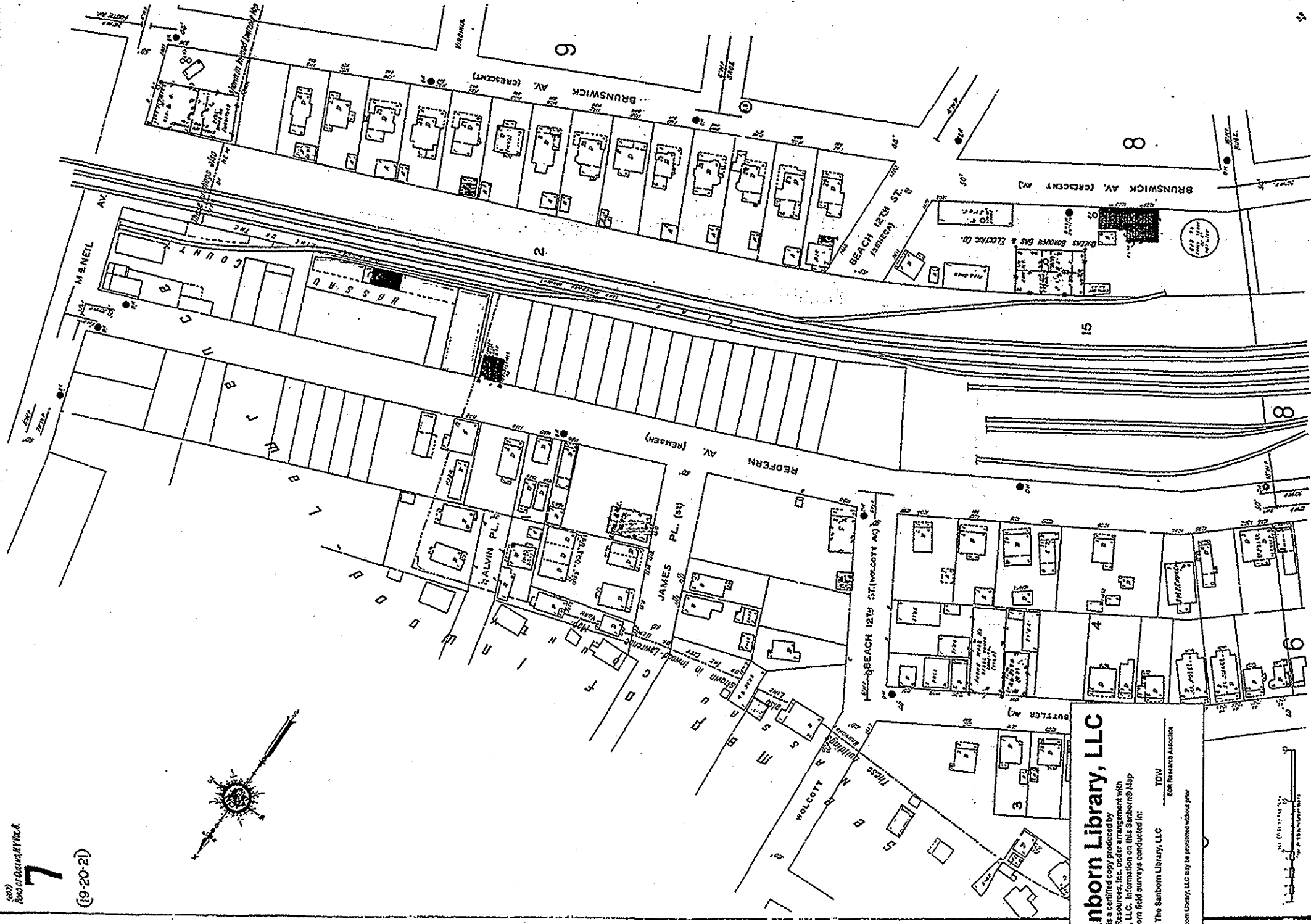
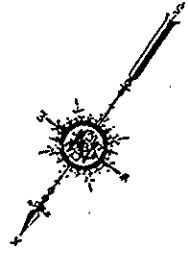
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Sanborn

7

(19-20-21)

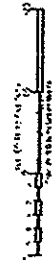


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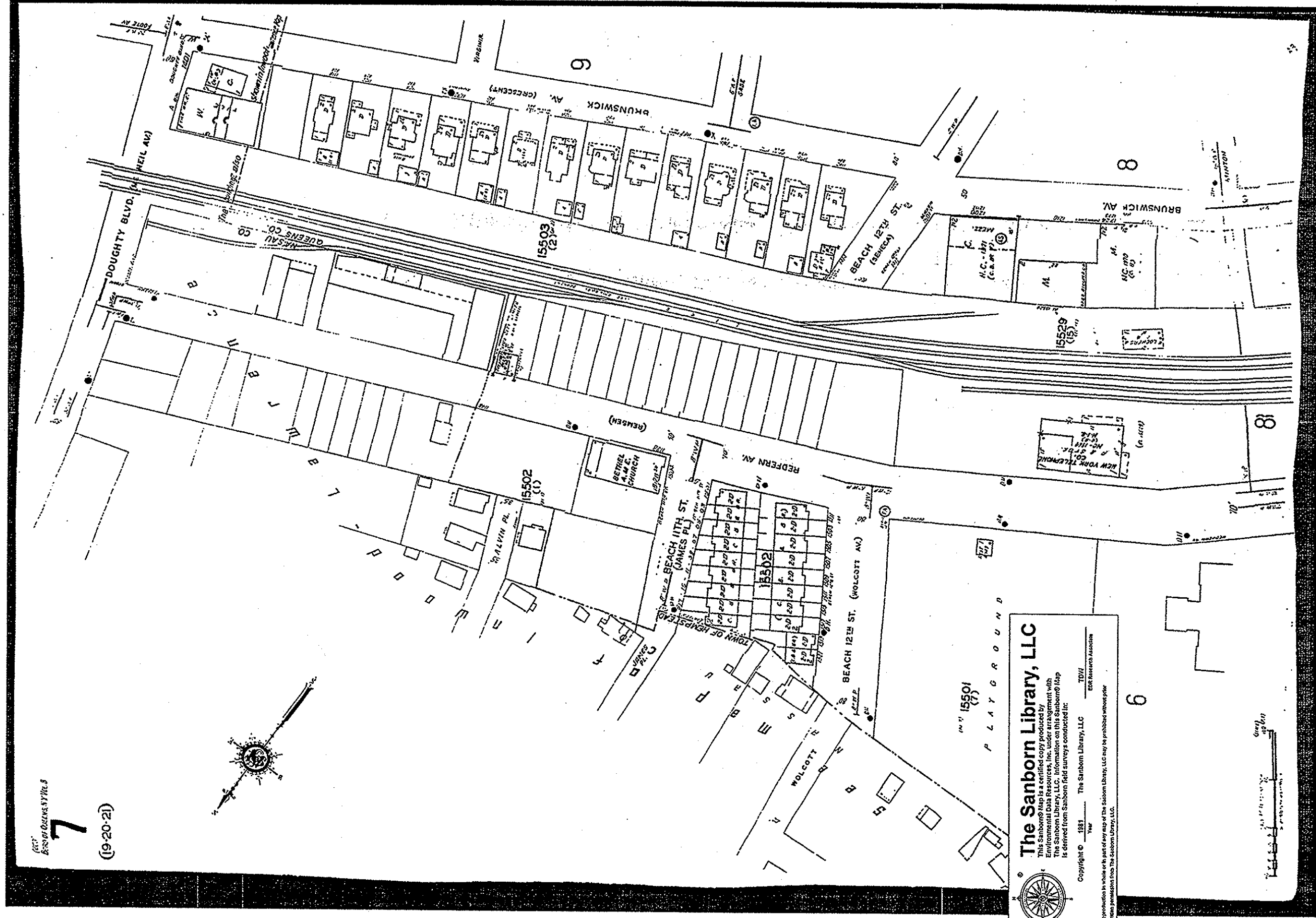
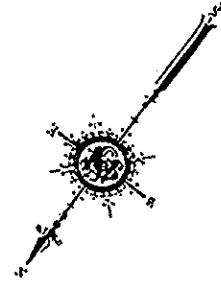




ACT  
200 of Queens NY/PL 8

7

(19-20-21)

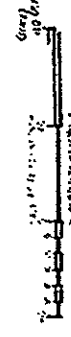
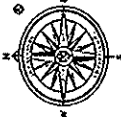


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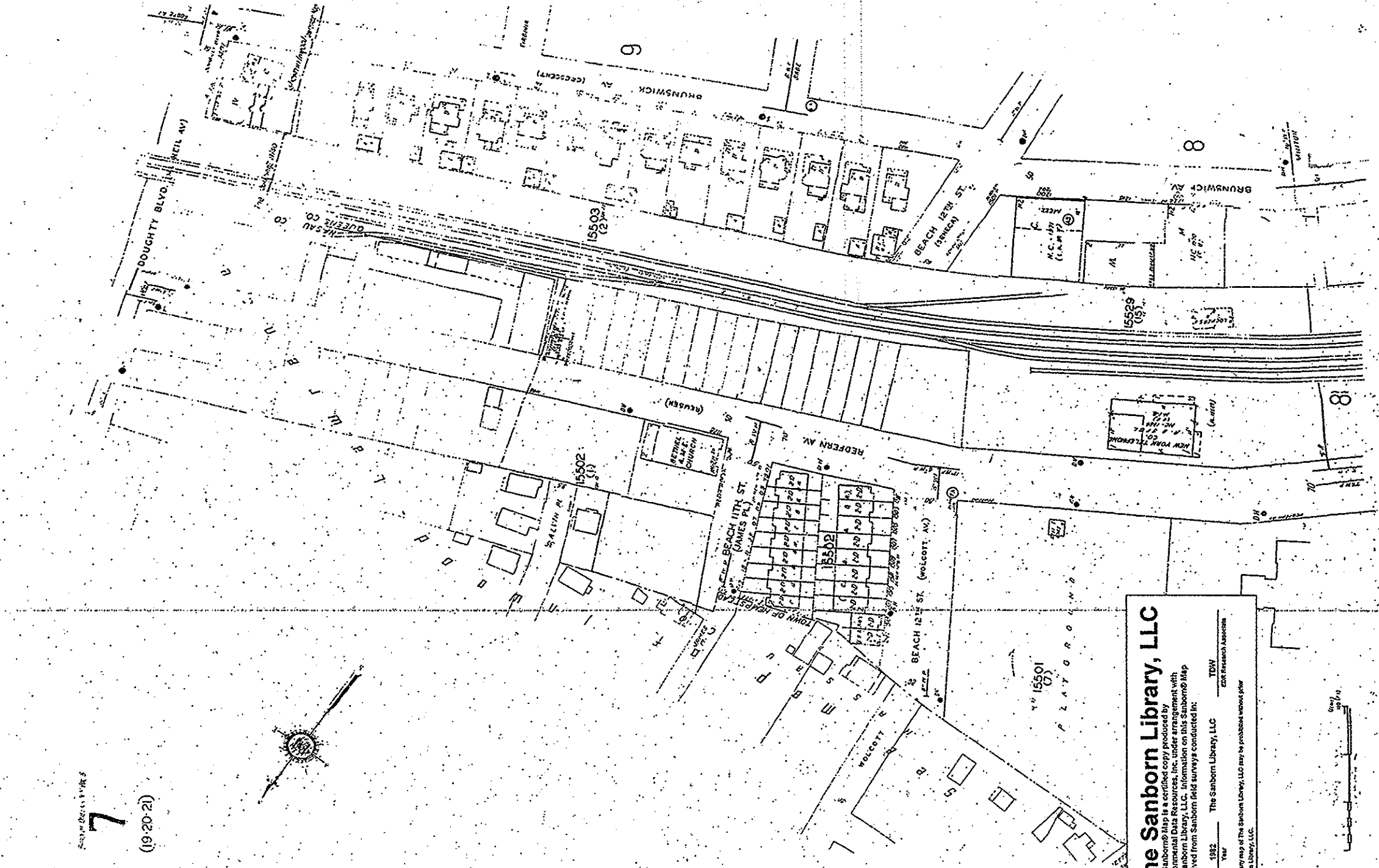
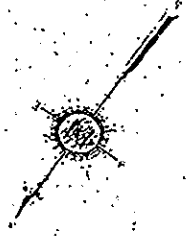
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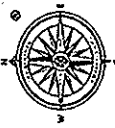


Scale 1:2500

7

(19-20-21)



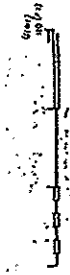


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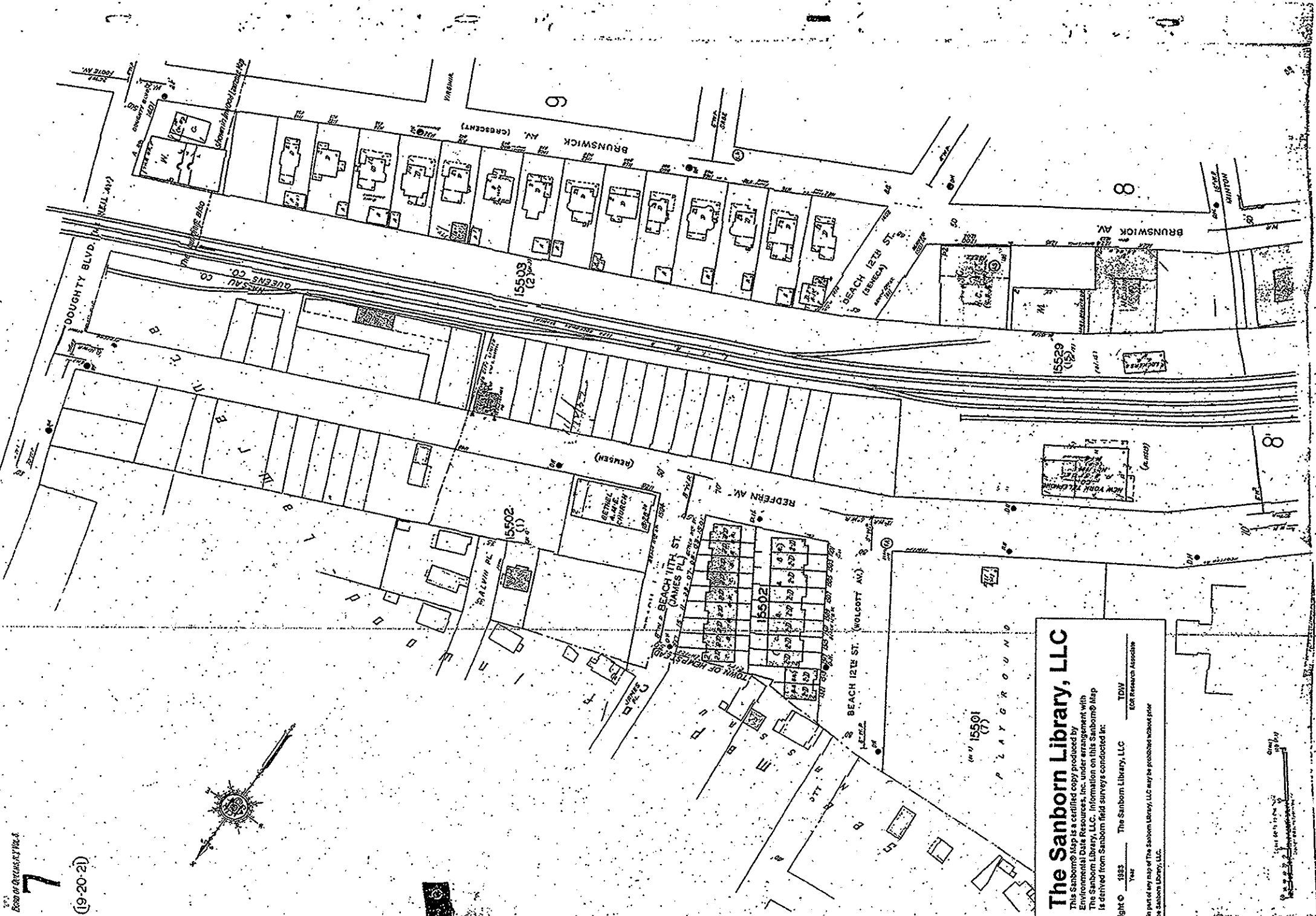
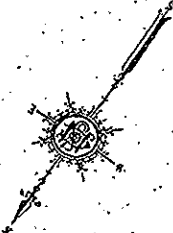
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Sheet of Queens, N.Y.

7

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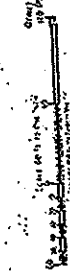
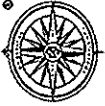


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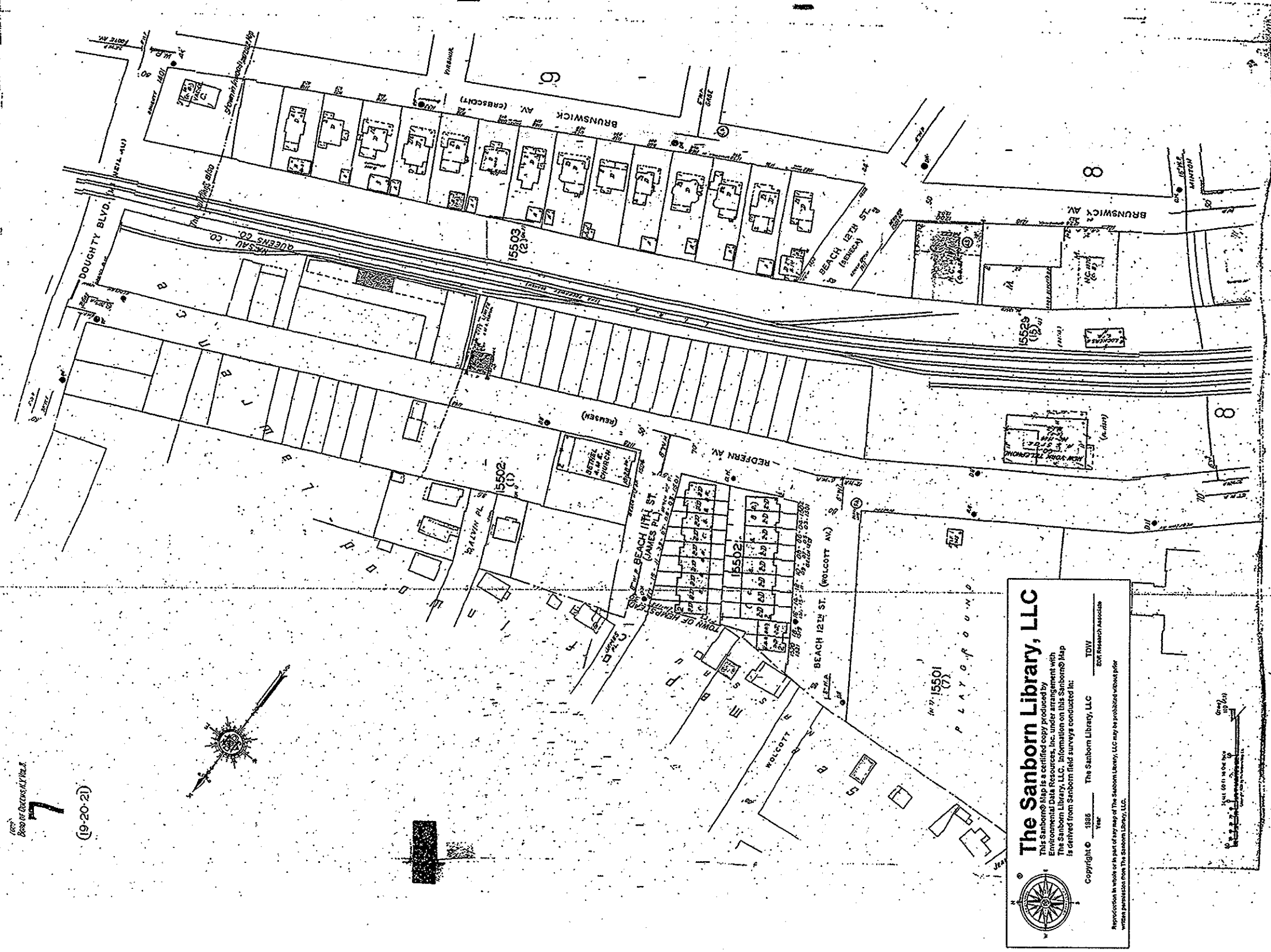
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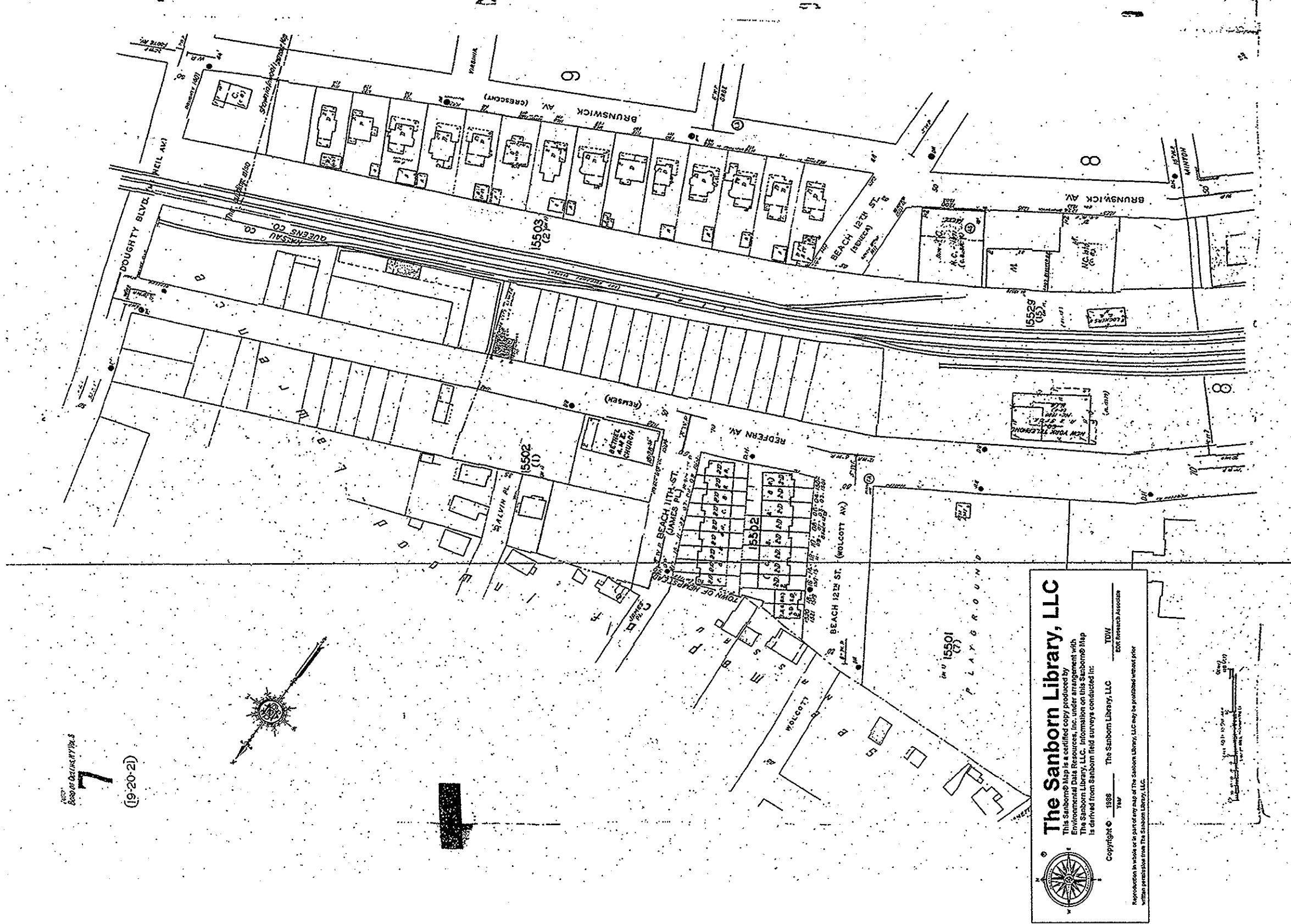
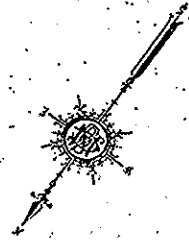


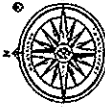


1988  
Base of Data 1/1/88

7

(9-20-21)



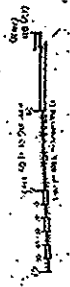


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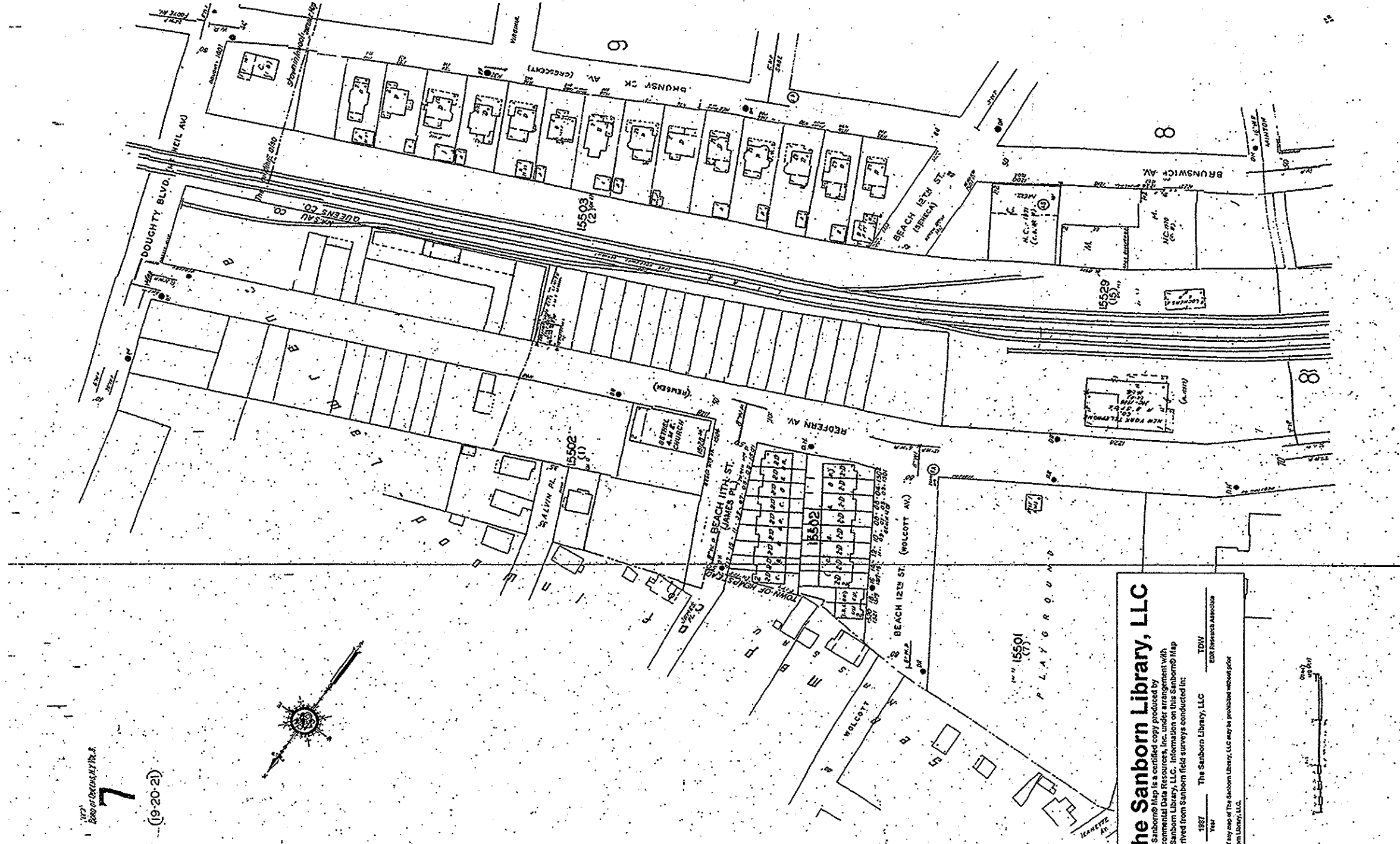
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1927  
Base of Census Map No. 8

7

(19-20-21)



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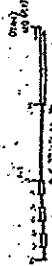
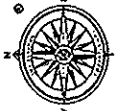
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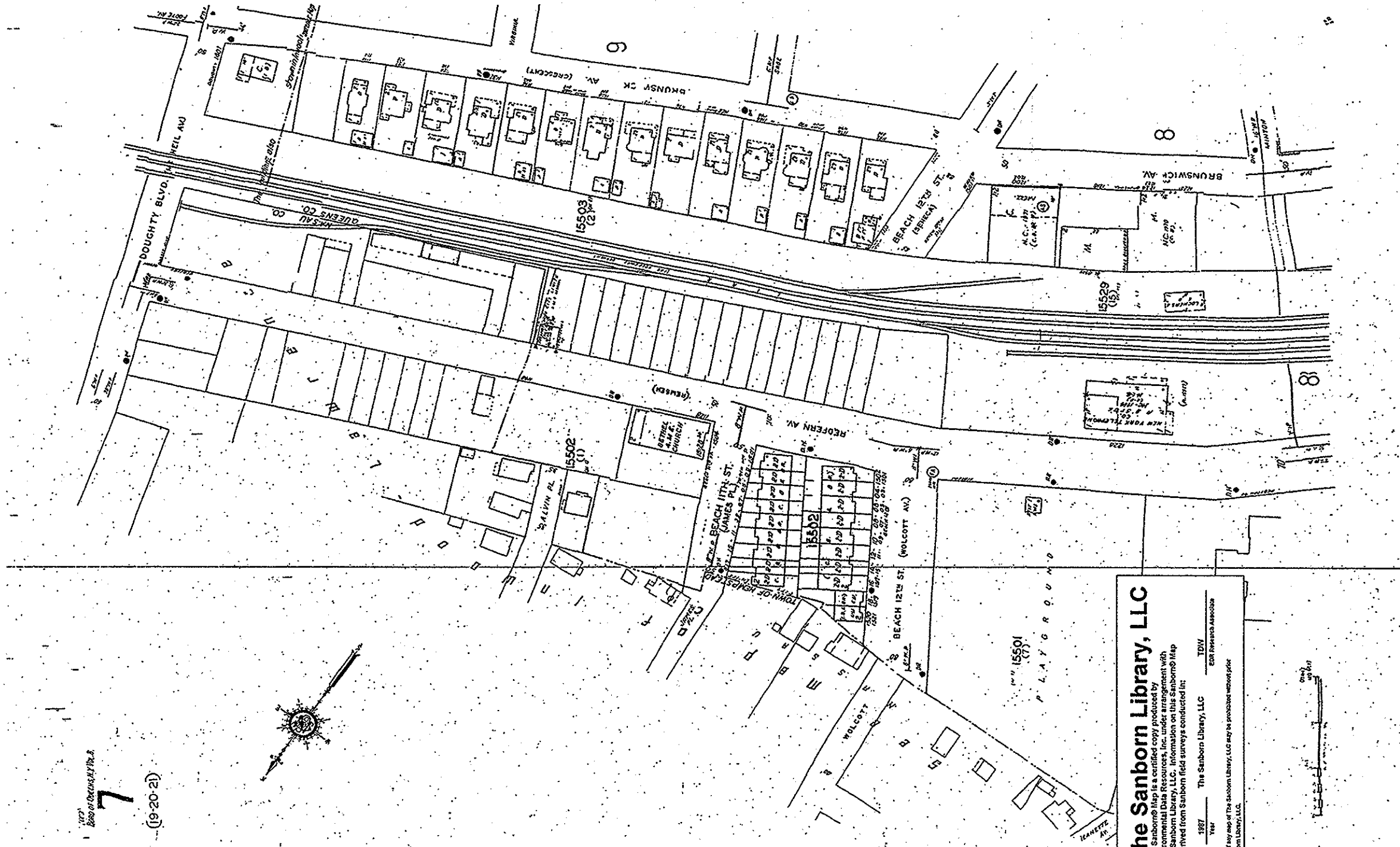
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1927  
Base of Census Map No. 8

7

(19-20-21)



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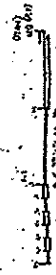
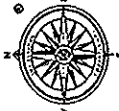
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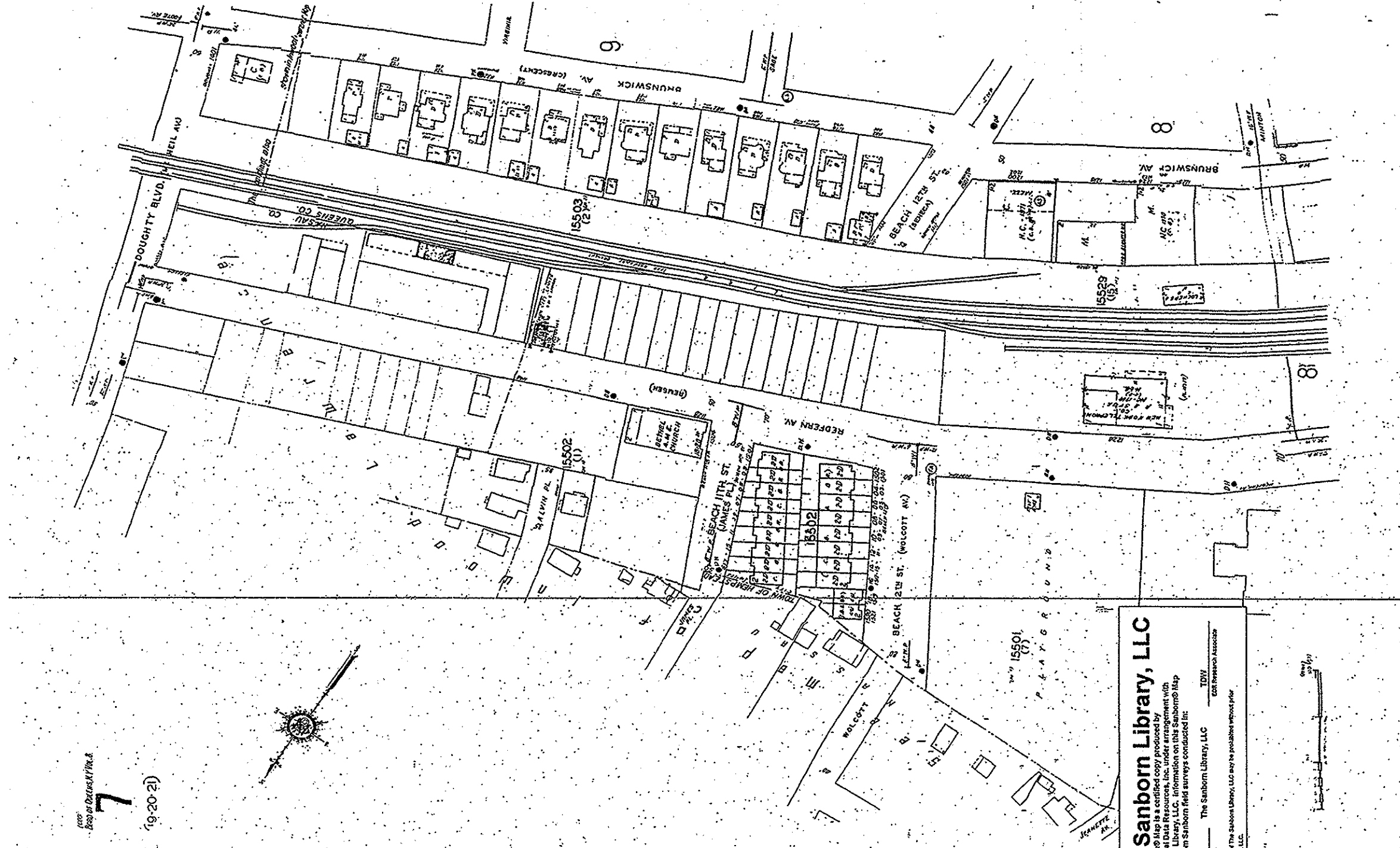
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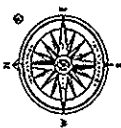
Year 1927

Scale 1" = 100'

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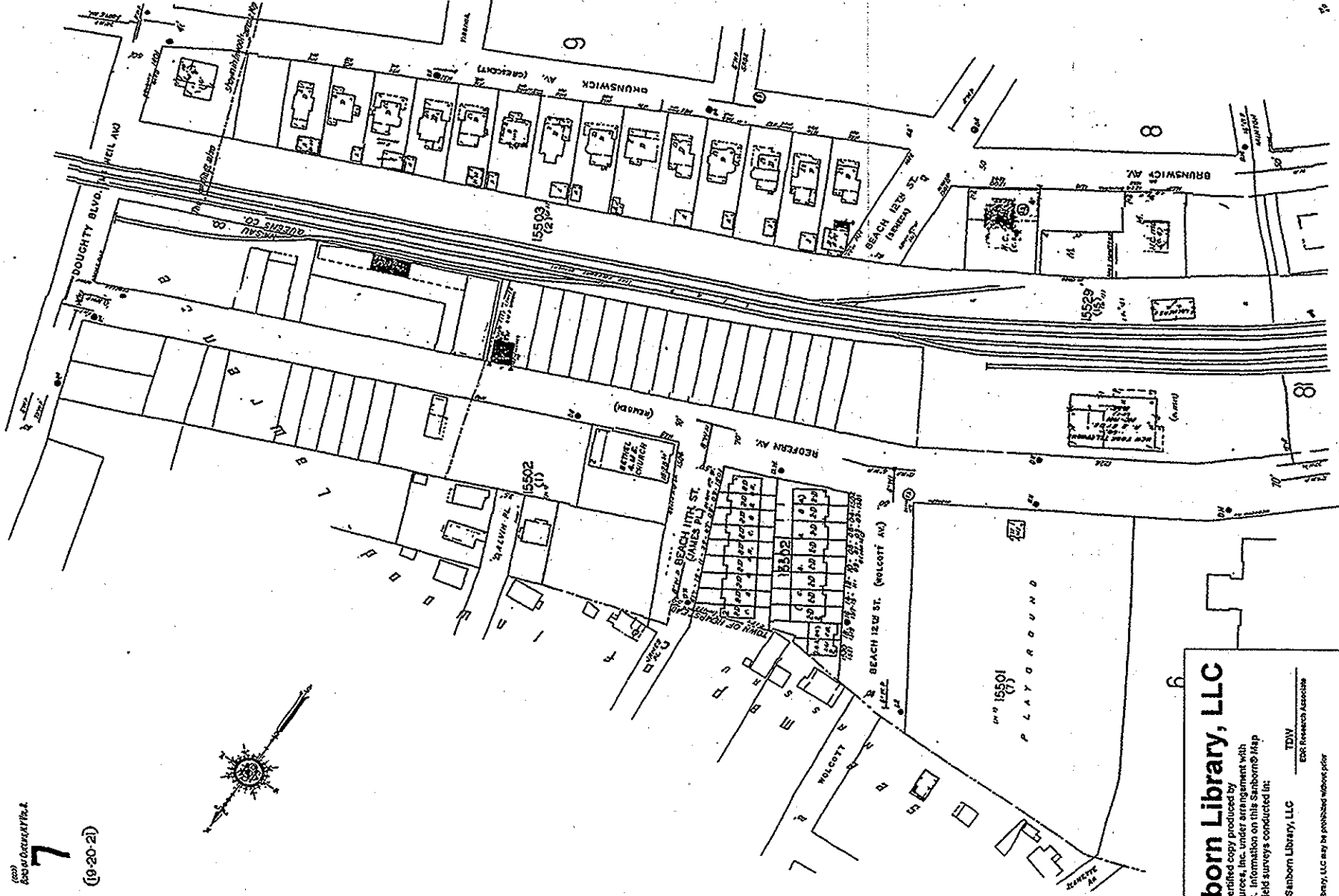


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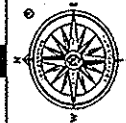








1993  
 Sanborn Co. No. 2  
**7**  
 (10-20-2)



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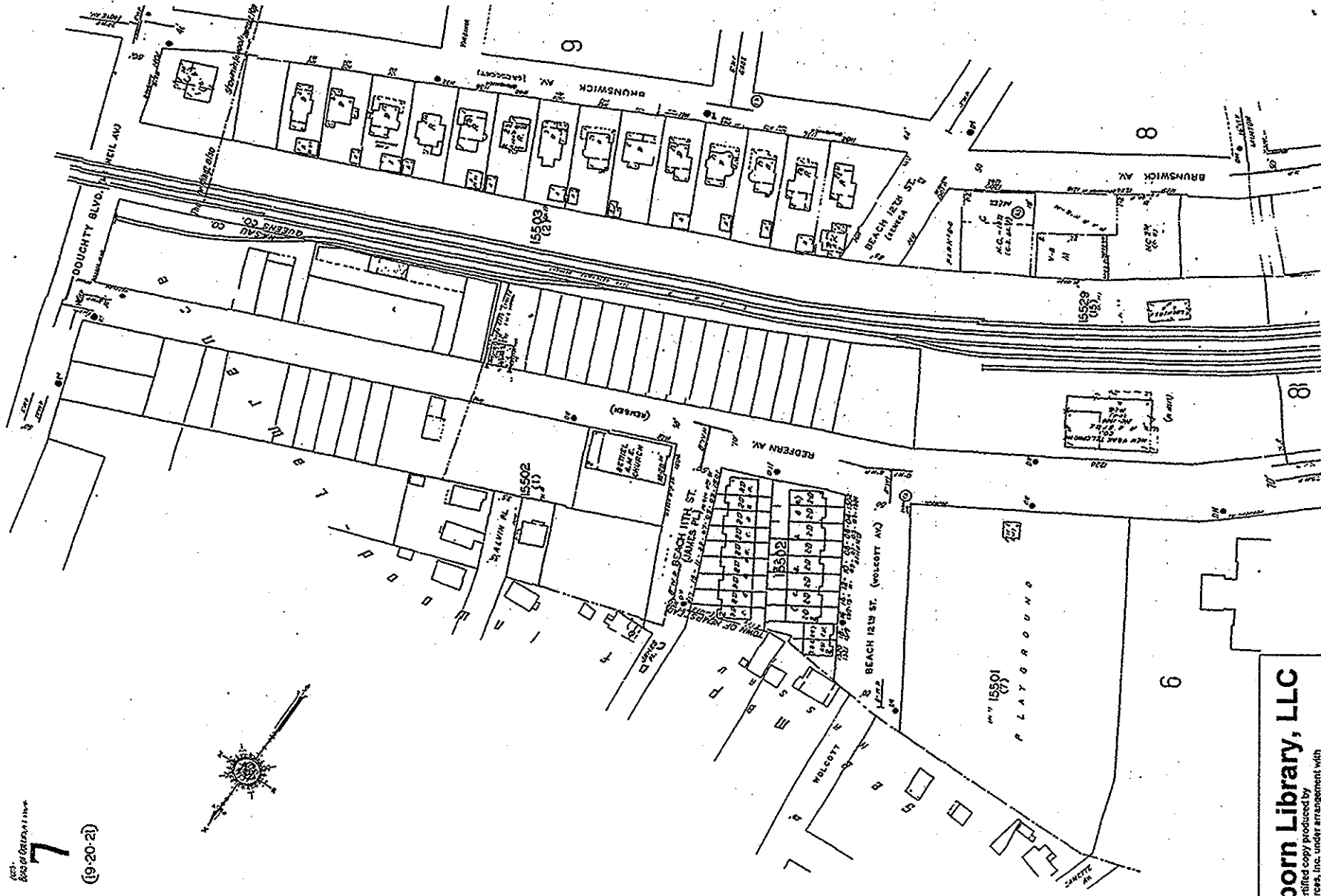
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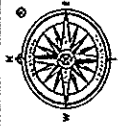
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100' 1" 1/2  
 7  
 (9-20-21)



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## **APPENDIX C**

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### **LETTERS OF INQUIRY AND RESPONSES**



**Paulus, Sokolowski & Sartor Engineering, PC**  
67A Mountain Boulevard Extension  
P.O. Box 4039  
Warren, New Jersey 07059  
tel: 732.560.9700  
fax: 732.560.9768

CERTIFIED MAIL – RETURN RECEIPT

December 19, 2002  
2522.006.014

Mr. Jonathan Gaska  
District Manager  
1931 Mott Ave  
Suite 311  
Far Rockaway, New York 11692

Re: Former Far Rockaway MGP Site  
Section 59, Block 15529, Lots 102, 105, 10, and 115  
1200, 1216, and 1224 Brunswick Ave  
Far Rockaway, NY

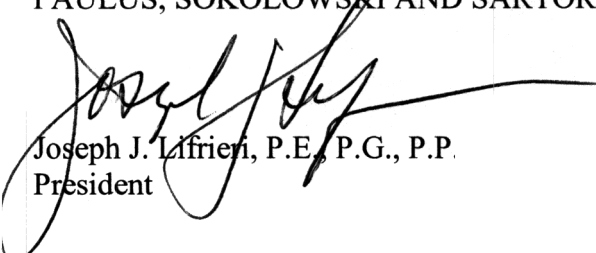
Dear Mr. Gaska:

Paulus, Sokolowski and Sartor, Engineering, PC (PS&SENG, PC) is performing a Preliminary Site Assessment (PSA) at the above referenced site. I am interested in information on the subject site, particularly related to any construction activities and or permits that may have been associated with the subject site. A map showing the subject site is enclosed.

If you have any questions please do not hesitate to contact John Pastorick at (732) 584-0228. Thank you for your assistance in this matter.

Very truly yours,

PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, PC



Joseph J. Lefrieri, P.E., P.G., P.P.  
President

CERTIFIED MAIL - RETURN RECEIPT

December 19, 2002  
2522.006.014

Rockaway Fire Department  
29 Point Breeze Ave  
Far Rockaway, New York 11697

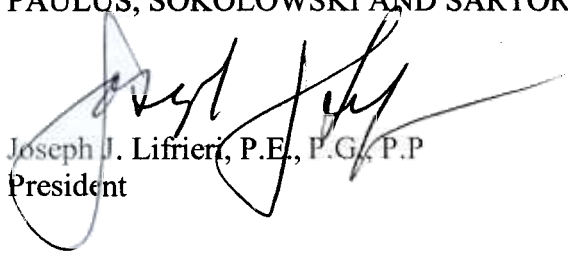
To Whom It May Concern:

Paulus, Sokolowski and Sartor Engineering, PC (PS&SENG, PC) requests any information available concerning spills, storage or releases of hazardous substances on or adjacent to Section 59, Block 15529, Lots 102, 105, 110, and 115, Far Rockaway, New York. The site is located at 1200, 1216, and 1224 Brunswick Ave between Minton Street and B12th Street.

If you have any questions please do not hesitate to contact John Pastorick at (732) 584-0228.  
Thank you for your assistance in this matter.

Very truly yours,

PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, PC



Joseph J. Lifrieri, P.E., P.G., P.P  
President

CERTIFIED MAIL - RETURN RECEIPT

December 19, 2002  
2522.006.014

Rockaway Health Department  
6710 Rockaway Beach Blvd  
Far Rockaway, New York 11692

To Whom It May Concern:

Paulus, Sokolowski and Sartor Engineering, PC (PS&SENG, PC) requests any information available concerning spills, storage or releases of hazardous substances on or adjacent to Section 59, Block 15529, Lots 102, 105, 110, and 115, Far Rockaway, New York. The site is located at 1200, 1216, and 1224 Brunswick Ave between Minton Street and B12th Street.

If you have any questions please do not hesitate to contact John Pastorick at (732) 584-0228. Thank you for your assistance in this matter.

Very truly yours,

PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, PC



Joseph J. Lirieri, P.E., P.G., P.P.  
President

CERTIFIED MAIL - RETURN RECEIPT

December 19, 2002  
2522.006.014

Freedom of Information Officer  
U.S. Environmental Protection Agency-Region II  
26 Federal Plaza, Room 905  
New York, NY 10278

To Whom It May Concern:

Paulus, Sokolowski and Sartor Engineering, PC (PS&SENG, PC) requests any information available concerning spills, storage or releases of hazardous substances on or adjacent to Section 59, Block 15529, Lots 102, 105, 110, and 115, Far Rockaway, New York. The site is located at 1200, 1216, and 1224 Brunswick Ave between Minton Street and B12th Street.

If you have any questions please do not hesitate to contact John Pastorick at (732) 584-0228.  
Thank you for your assistance in this matter.

Very truly yours,

PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, PC



Joseph J. Liffieri, P.E., E.G., P.P.  
President





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 2  
290 BROADWAY  
NEW YORK, NY 10007-1866**

January 17, 2003

**Re: Freedom of Information Act Request No.(s): (2)RIN-0546-03**

**Subject: 1200, 1216 AND 1224 BRUNSWICK AVE. FAR ROCKAWAY, NY**

**Dear FOIA Requester:**

The above-mentioned site is not listed on the CERCLIS or NFRAP lists at the present time.

As of February 15, 1995, CERCLIS no longer includes sites which EPA has assessed and designated "No Further Remedial Action Planned" (NFRAP). A NFRAP designation means, to the best of EPA's knowledge, Superfund has completed its assessment at a site and determined no further steps would be taken to list this site on the National Priorities List (NPL) unless information is received at a later time indicating this decision was not appropriate. A NFRAP decision does not necessarily mean that there is no hazard associated with a given site; it means only that based upon available information, the location is not judged to be a potential NPL site.

Also, the absence of a facility from the CERCLIS list should not be construed as a determination by the EPA that the facility has not been affected by the presence of any hazardous waste. The absence of a facility from this list means that EPA has not received information indicating that there has been a release or threat of hazardous substances at or from the facility. Therefore, EPA has not performed an assessment at this location to date. As with any parcel of real property, EPA may be called upon to assess the property for a release of hazardous substances should conditions warrant.

In the future, you may conduct site searches by accessing the internet at the following World Wide Web Sites:

**CERCLIS:** [http://www.epa.gov/enviro/html/cerclis/cerclis\\_query.html](http://www.epa.gov/enviro/html/cerclis/cerclis_query.html)  
**ERNS:** <http://www.nrc.uscg.mil>  
**NTIS:** <http://www.ntis.gov>  
**EPA HQ** <http://www.epa.gov>

You may also obtain hard copy or diskettes of CERCLIS and other Region 2 lists from the Superfund Automated Phone System or from the National Technical Information Service (NTIS). Enclosed are instructions for accessing each of these systems.

If your request includes non-Superfund inquiries, copies of your letter will be sent to other EPA divisions for separate response.

Sincerely,

A handwritten signature in black ink, reading "Leslie H. Peterson". The signature is written in a cursive style with a large, stylized "L" and "P".

Leslie H. Peterson, Chief  
Resource Management/Cost Recovery Section  
Emergency and Remedial Response Division

Enclosure(s)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2  
290 BROADWAY  
NEW YORK, NY 10007-1866

JAN - 7 2003

Mr. Joseph J. Lifrieri, PE, PG, PP  
President  
Paulus, Sokolowski and Sartor, Inc.  
67A Mountain Boulevard Extension  
P.O. Box 4039  
Warren, New Jersey 07059

Re: Freedom of Information Request No. 02-RIN-00546-03  
Dated: December 19, 2002

Dear Mr. Lifrieri:

Your request for information has been referred to this branch for response. We have searched the Resource Conservation and Recovery Act (RCRA) files and/or computer database as appropriate to respond to your request. In addition, you may also receive more information from other program areas within this Regional Office.

We were unable to find RCRA information concerning the sites at 1200, 1216 and 1224 Brunswick Avenue in Far Rockaway, New York.

If you consider this response to be a denial, you may address your written appeal to HQ FOIA OPERATIONS STAFF, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., MC 2822T, Washington, D.C. 20460.

Also, RCRA information is now available on the World Wide Web as described on the enclosed sheet.

Please include the above referenced request number in any subsequent communication relating to this response.

Sincerely yours,

Adolph Everett, Acting Chief  
RCRA Programs Branch

Enclosure

**RECEIVED**

JAN 09 2003

Paulus Sokolowski & Sartor

## **Environmental Protection Agency Internet**

### **Internet - Region 2**

EPA Region 2 provides an increasing amount of Environmental media information, and other Regional Activities via Internet at <http://www.epa.gov>. Recently, Region 2 has provided a Freedom of Information Act (FOIA) specific page <http://www.epa.gov/region2/foia.htm> which covers many media programs, currently focusing on RCRA data. Through this FOIA page, you can learn about each media Program, associated databases, and special points of interest. Of particular interest is the ability to "directly download" all of the most commonly requested Region 2 ASCII and Flat File RCRA FOIA reports - all compressed for quicker downloading.

Also found on the FOIA site are direct links to the **Envirofacts** and **RTK Net** public access databases. Both house Environmental media data from EPA National Databases, and are specifically designed for public use. Both have on-line query capabilities for facility specific information.

More specific FOIA requests will be honored by directly writing to Region 2, and more specific questions regarding the RCRA Program should be directed to the RCRA Hotline at 1-800-424-9346.

### **Internet - HQ**

EPA HQ provides BRS data cycle instructions, and the data for all completed BRS data cycles at <http://www.epa.gov/epaoswer/hazwaste/data>.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
EPA Region 2, 290 Broadway, 26th Floor (PAD)  
NEW YORK, NY 10007

Request Acknowledgment

January 3, 2003

Mr. Joseph Lifrieri  
Paulus, Sokolowski & Sartor Engineering, PC  
67A Mountain Blvd. Ext.  
PO Box 4039  
Warren, NJ 07059

RE:

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Thank you for your FOIA request, dated December 19, 2002, and received in this office on January 2, 2003, for records related to 1200, 1216 AND 1224 BRUNSWICK AVE. FAR ROCKAWAY, NEW YORK. The Agency has twenty (20) working days to respond to your request, except when you have agreed to an alternate due date or unusual circumstances exist that would require an extension of time under 5 U.S.C. 552(a)(6)(B). Please be advised that in accordance with the EPA's revised FOIA regulations (40 CFR 2.100, et. seq.), effective November 5, 2002, the Agency's fees for processing requests have changed. The new fee schedule is as follows:

- Clerical staff time billed at \$4.00 per 15 minutes of search and/or review
- Professional staff time billed at \$7.00 per 15 minutes of search and/or review
- Managers' time billed at \$10.25 per 15 minutes of search and/or review
- No fee will be charged for services at or below \$14.00
- Assurance of payment of fees above \$25.00 will be obtained from the requester before commencing any work
- Advance payment of fees above \$250 may be required by the Agency before commencing any work

We hope to respond to you soon. In the interim, please contact us if you have any questions about your request. Please cite to your FOIA request number in all communications.

Sincerely,

Freedom of Information Officer - Public Affairs  
Division  
Office: (212)637-3668  
Fax: (212)637-5046

**RECEIVED**

JAN 07 2003

Paulus Sokolowski & Sartor

**NYS Department of Environmental Conservation**

**Office of Media Relations**

**625 Broadway, Albany, New York 12233-1016**

**(518) 402-8000 (518) 402-2209(fax)**

**FOIL Request No. 02-1434**

**12/31/02**



**Erin M. Crotty  
Commissioner**

Mr. John Pastorick  
67 A Mountain Blvd. Ext. PO Box 4039  
Warren, NJ 07059-

Dear Mr. Pastorick:

This is to acknowledge receipt of your Freedom of Information Law request seeking:

Records re: **Far Rockaway** former MGP site located at 1200-1224 Brunswick Avenue, Section 59,  
**Block 15529**, Lots 102, 105, 110 and 115.

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. Antoinette Norfleet - Environmental Remediation  
625 Broadway  
Albany, NY 12233-7012 (518) 402-9750

You may expect a response to your request by 1/14/03.

If I can be of further assistance, please contact me at (518) 402-8000 Refer to request number  
02-1434 if you write or call.

Sincerely,

Ruth L. Earl  
Records Access Officer

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Feb 11, 2003

NYC Department of Buildings  
Property Profile Overview

12-02

BRUNSWICK AVENUE

QUEENS 11691

BIN# 4297867

BRUNSWICK AVENUE 12-00 - 12-02

Health Area : 38

Tax Block : 15529

BEACH 12 STREET 14-01 - 14-11

Census Tract : 1032

Tax Lot : 102

Community Board : 414

DOB Special Place Name:

Department of Finance Occupancy Code:

E1-WAREHOUSE

Property Record(s): 1

Other BINs: NONE

Landmark Status:

	Total	Open
Complaints	0	0
Violations-DOB	0	0
Violations-ECB	0	0

Jobs/Filings	0
PRA / ARA Jobs	0
Total Jobs	0
Actions	22

OR Enter Action Type: 

OR Select from List:

AND

[View Boilers](#)

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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[City Agencies](#) • [Services](#) • [News and Features](#) • [City Life](#) • [Contact Us](#) • [Search](#)



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Actions

Page: 1

Premise: 12-02 BRUNSWICK AVENUE QUEENS

BIN: 4297867 Block: 15529 Lot: 102

NUMBER	TYPE	STATUS	FILE DATE
ALT 1138-11	ALTERATION		00/00/0000
ALT 866-73	ALTERATION		00/00/1911
ALT 622-81	ALTERATION		00/00/1973
BN 953-73	BUILDING NOTICE		00/00/1981
BRU KAVE)			00/00/1973
CLE ELETTERMUSTBE			00/00/0000
<u>CO 197694</u>	CERTIFICATE OF OCCUPANCY		00/00/0000
COQ 182652(NB876-71)	CERTIFICATE OF OCCUPANCY - QUEENS		04/30/1982
DEM ONPERMITCANBEISSUED	DEMOLITION		00/00/1971
			00/00/0000

Next

Enter Action Type:

Or Select from List:

Select...

Refresh

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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NYC Department of Buildings  
Actions



Page: 2

Premise: 12-02 BRUNSWICK AVENUE QUEENS

NUMBER	TYPE	BIN: 4297867	Block: 15529	Lot: 102	STATUS	FILE DATE
DEM 175-69(3SHEDS)-487-69(GA	DEMOLITION					00/00/1969
MEM D8-21-68						00/00/1921
MIS 106-72	MISCELLANEOUS					00/00/1972
MIS 427-81	MISCELLANEOUS					00/00/1981
NB 32222-12(1687-68E)(12-16	NEW BUILDING					00/00/1912
NB 876-71	NEW BUILDING					00/00/1971
NB 876-71(12-02BRUNSWICKAVE	NEW BUILDING					00/00/1971
OBT FROMSYFELLERBEFORE						00/00/0000
ONA ERFILINGSREFERTO						00/00/0000
PR 1694-71						00/00/1971

Previous

Next

Enter Action Type:  Or Select from List:

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000



NYC Department of Buildings  
Actions



Page: 3

Premise: 12-02 BRUNSWICK AVENUE QUEENS

BIN: 4297867 Block: 15529 Lot: 102

NUMBER	TYPE	STATUS	FILE DATE
Q 197694(ALT622-81)			00/00/1981
UB 355-68-PRECEPTOBTAINED-	UNSAFE BUILDING		00/00/1968

Previous

Enter Action Type:

Or Select from List:

Refresh

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

NEW YORK CITY

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Feb 11, 2003

DEPARTMENT OF  
BUILDINGSNYC Department of Buildings  
Application / C of O Display**NYC**  
.gov  
always open

Premise: 12-02 BRUNSWICK AVENUE QUEENS

BIN: 4297867 Block: 15529 Lot: 102

Application			
Type: CO	Number: 197694	Status:	Date: 04/30/1982
Supercedes CO:	192189	Appl Number:	622/81
District 1:	M1-1	Type:	ALT
District 2:		Compl:	04/30/1982
Bldg OCC Cls:	XXXX	Units:	
BSA Appl 1:		Height:	
BSA Appl 2:		Stories:	
City Cal Date:		Const Cl:	
Issue Date:	04/30/1982	Text:	

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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NYC Department of Buildings  
Property Profile Overview

<b>12-16</b>	<b>BRUNSWICK AVENUE</b>	<b>QUEENS 11691</b>	<b>BIN# 4297868</b>
BRUNSWICK AVENUE 12-16 - 12-16		Health Area : 38	Tax Block : 15529
		Census Tract : 1032	Tax Lot : 105
		Community Board : 414	

DOB Special Place Name:

Department of Finance Occupancy Code:

Other BINs: NONE

E9-WAREHOUSE

Property Record(s): 1

Landmark Status:

	Total	Open
<u>Complaints</u>	1	0
Violations-DOB	0	0
Violations-ECB	0	0

<u>Jobs/Filings</u>	1
PRA / ARA Jobs	0
Total Jobs	1
<u>Actions</u>	5

OR Enter Action Type: 

OR Select from List:

AND

[View Boilers](#)

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

NEW YORK CITY

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Feb 11, 2003

NYC Department of Buildings

## Complaints By Address

1 Total Complaints at BIN No. 4297868



Page: 1

Complaint Number	Address	Date Entered	Category	Inspection Date	Disposition	Status
<a href="#">4123892</a>	12-16 BRUNSWICK AVENUE	03/19/2001	05	04/19/2001	I2	RES

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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Feb 11, 2003

NYC Department of Buildings

## Overview for Complaint #: 4123892 = RESOLVED



Complaint at: 12-16 BRUNSWICK AVENUE

Re: NO BLDG. PERMIT FOR ALTERATIONS TO 1ST. FL. STORAGE AREA

Borough: QUEENS

ZIP: 11691

Category Code: 05 BUILDING PERMIT - NONE (BUILDING/ PA/ DEMO)  
 Assigned To: QUEENS BOROUGH OFFICE

Priority: C

Received: 03/19/2001 14:17 Block: 15529 Lot: 105 Community Board: 414  
 Owner: M & S EQUITIES ASSOCI

Last Inspection: 04/19/2001 -- BY BADGE # 0702 LIBERATORE RAYMOND QUEENS

Disposition: 04/23/2001 -- I2 - NO ACTION NECESSARY BASED UPON PHYSICAL OBSERVATION

Comments: NO ACTION NECESSARY, NO WORK BEING DOWN AT TIME OF INSPECTION

## Complaint Disposition History

Disposition Date	Code	Disposition	Inspection By	Date
04/23/2001	C1	INSPECTOR UNABLE TO GAIN ACCESS ON FIRST (1ST) INSPECTION ATTEMPT NO ACCESS ON FIRST INSPECTION	1150 SAM	03/29/2001
04/23/2001	I2	NO ACTION NECESSARY BASED UPON PHYSICAL OBSERVATION NO ACTION NECESSARY, NO WORK BEING DOWN AT TIME OF INSPECTION	0702 LIBER	04/19/2001

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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NYC Department of Buildings  
Actions



Page: 1

Premise: 12-16 BRUNSWICK AVENUE QUEENS

BIN: 4297868   Block: 15529   Lot: 105

NUMBER	TYPE	STATUS	FILE DATE
ALT 847-70	ALTERATION		00/00/1970
CO 7-79(847-70)	CERTIFICATE OF OCCUPANCY		00/00/1979
COQ 194382	CERTIFICATE OF OCCUPANCY - QUEENS		00/00/0000
MIS 571075	MISCELLANEOUS		00/00/0000
PRS 1750-86	PLUMBING REPAIR SLIP		11/14/1986

Enter Action Type:  Or Select from List:

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000



NYC Department of Buildings  
Property Profile Overview



12-24

BRUNSWICK AVENUE

QUEENS 11691

BIN# 4297869

BRUNSWICK AVENUE 12-24 - 12-24

Health Area : 38  
Census Tract : 1032  
Community Board : 414

Tax Block : 15529  
Tax Lot : 110

DOB Special Place Name:

Department of Finance Occupancy Code:

Other BINs: NONE

E1-WAREHOUSE

Property Record(s): 1

Landmark Status:

	Total	Open
<a href="#">Complaints</a>	2	0
<a href="#">Violations-DOB</a>	0	0
<a href="#">Violations-ECB</a>	1	1

<a href="#">Jobs/Filings</a>	1
<a href="#">PRA / ARA Jobs</a>	0
<a href="#">Total Jobs</a>	1
<a href="#">Actions</a>	4

OR Enter Action Type:

OR Select from List:

Select...

AND

Show Actions

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If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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Feb 11, 2003

NYC Department of Buildings

## Overview for Complaint #: 4085310 = RESOLVED



Complaint at: 12-24 BRUNSWICK AVENUE

Re: NO EQUIPMENT USE PERMIT FOR ROOF TOP AIR CONDITIONERS

Borough: QUEENS

ZIP: 11691

Category Code: 05 BUILDING PERMIT - NONE (BUILDING/ PA/ DEMO)  
Assigned To: QUEENS BOROUGH OFFICE

Priority: C

Received: 10/21/1998 09:03

Block: 15529

Lot: 110

Community Board: 414

Owner: RAINBOW LAND DEVELOPMENT CORP

Last Inspection: 10/29/1998 -- BY BADGE # 1220 WARD THOMAS E ERT

Disposition: 11/04/1998 -- B1 - VIOLATION PREPARED AND ADDITIONAL SERVICE ATTEMPTS TO BE MADE

Comments: 1 VIOLATION WRITTEN FOR WORK W/O PERMIT FOR A/C UNIT ON ROOF

## Complaint Disposition History

Date	Disposition Code	Disposition	Inspection By	Date
------	---------------------	-------------	------------------	------

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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NYC Department of Buildings  
Overview for Complaint #: 4125320 = RESOLVED



Complaint at: 12-24 BRUNSWICK AVENUE

Borough: QUEENS ZIP: 11691

Re: NO DIRECTIONAL SIGN FOR EXIT AT 2 FLOOR OFFICES

Category Code: 73 FAILURE TO MAINTAIN  
Assigned To: QUEENS BOROUGH OFFICE

Priority: C

Received: 04/16/2001 09:48 Block: 15529 Lot: 110 Community Board: 414  
Owner: 1224 BRUNSWICK REALTY

Last Inspection: 04/19/2001 - - BY BADGE # 0702 LIBERATORE RAYMOND QUEENS  
Disposition: 04/25/2001 - - A9 - ECB & DOB VIOLATIONS SERVED  
Comments: VI ISSUED FOR FAILURE TO PROVIDE EXIT SIGNS IN STAIR WELL &  
EXIT SIGNS NOT WORKING ON FIRST FLOOR. -

### Complaint Disposition History

Date	Disposition Code	Disposition	Inspection By	Date
------	------------------	-------------	---------------	------

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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NEW YORK CITY

DEPARTMENT OF  
BUILDINGS
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 NYC Department of Buildings  
 ECB Query By Location


Page: 1

Boro: 4 QUEENS

Num: 12-24

Street: BRUNSWICK AVENUE

BIN #: 4297869

Block: 15529

Lot: 110

CB: 414

1-1 of 1 Violations

A ECB NUM / INF CD

RESPONDENT NAME

DATE OF ISSUANCE &  
DOB VIOL NUMB / PROV LAW

VIOL TYPE

STATUS

A 34190677N

RAINDOW LAND DEVELOP

102998C14TV03

CONS

NO COMP

B04

27-147

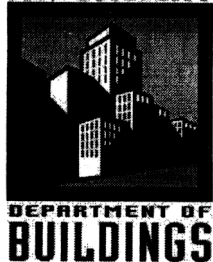
If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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NEW YORK CITY

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Feb 11, 2003

NYC Department of Buildings  
ECB Violation Details

ECB Violation Number: 34190677N

VIOL ACTIVE

BIN #: 4297869

## Location Info:

NO COMPL RECORD

Block: 15529

12-24 BRUNSWICK AVENUE , QNS , NY 11691

Lot: 110

## Respondent Info:

CB: 414

RAINBOW LAND DEVELOPME . 45 OAK POINT DRIVE NORTH , BAYVILLE , NY

GEO Flag: 1

Viol Issue Date: 10/29/1998

Delivered Date: 10/29/1998

Viol Type: CN - CONSTRUCTION

DOB Viol Number: 102998C14TV03

Issuing Insp ID: 1220

Tax Lien Serv: NO

Device Type:

Device Number: 4297869

Sched Hrg Date: 06/29/1999

Hearing Time: 8:30

Location: QNS

Amount Imposed: \$500.00

Amount Paid: \$500.00

Hearing Status: V - IN VIOLATION

Compl Status: N - NO COMPL RECORD

Compl By Date: 09/29/1999

Compl Met Flag:

Compl Met Date:

Viol Severity: B - MODERATE

## Infraction Codes:

B04 27-147 WORK WITHOUT A PERMIT

## Description of Violation:

WORK WITOUT APERMIT. ILLEGAL WORK NOTED ON ROOF OF PREMISES. INSTALLED A TRANE A/C AND HEATING UNIT, ONTO A STEEL FRAME AFFIXED TO BUILDING. OBTAIN APPROVALS AND PERMITS FOR ABOVE NOTED WORK OR RESTORE PREMISES

## Historical Event Dates:

CUR:

HRG:

COM:

DEF:

STIP ACC:

AJR:

ASG:

WRI:

Reinspection Compliance:

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the DOB Call Center (Monday through Friday between 8 a.m. and 5 p.m.) at 212-227-7000

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## NYC DEPARTMENT OF BUILDINGS

### BIS GLOSSARY

<a href="#">Building Information Search</a>	<a href="#">Property Profile Overview</a>	<a href="#">Complaints By Address</a>
<a href="#">Overview for Complaint</a>	<a href="#">ECB Query By Location</a>	<a href="#">ECB Query By Number</a>

For additional information please review the [Frequently Asked Questions](#), call our Call Center at Department's Call Center at 212-227-7000, Monday through Friday between the hours of 8 a.m. and 5 p.m., or visit one of our Borough Offices.

For a quick review of codes review the [Index Interpretation](#) document (10 kb in **Adobe® Acrobat® 5.0 -PDF** format).

### Building Information Search

**Block** - Tax block assigned by Department of Finance

**Borough** - 1= Manhattan, 2 = Bronx, 3 = Brooklyn, 4 = Queens, 5 = Staten Island

**Building Identification Number** - Unique 7-digit Building Identification Number, assigned by City Planning, to a specific building

**Complaint Number** - 7-digit number assigned to complaint by DOB

**House Number** - House Number of Residence or Commercial Property

**Lot** - Tax lot assigned by Department of Finance

**Street** - Street Name where Property is located

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**Actions** - List of all Pre-BIS construction related activity, violations.

**BIN#** - Unique 7-digit Building Identification Number, assigned by City Planning, to a specific building

**Census Tract** -

**Community Board** - 3-digit identifier: Borough code = first position, last 2 = community board

**Complaints** - Total number of complaints on a property

**DOB Special Place Name** - Name commonly used to refer to property. I.e.. Empire State Building

**Finance Occupancy Code** - Occupancy Classification Use from Department of Finance

**Jobs/Filings** - Number of BIS Applications filed on property. I.e., NBs, Alterations, Demolition's, Subdivisions

**Landmark Status** - L code indicates that the building has been assigned landmark status

**Property Record(s)** - Displays how many records are attached to the specific property.

**Tax Block** - Tax block assigned by Department of Finance

**Tax Lot** - Tax lot assigned by Department of Finance

**Violations-DOB** - Total number of DOB violations on a property

**Violations-ECB** - Total number of ECB violations on a property

For a quick review of codes review the [Index Interpretation](#) document (10 kb in **Adobe® Acrobat® 5.0 -PDF** format).

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## Complaints By Address

**Address** - Borough, House Number, Street Name of property

**Category** - 2-digit code for type of Complaint

**Complaint Number** - 7-digit number assigned to complaint by DOB

**Date Entered** - Date Complaint was entered into BIS

**Disposition** - Result of Inspection concluding in a disposition of the complaint

**Inspection Date** - Date complaint inspection was performed

**Status** - Status of complaint - Pending/Resolved

**Total Complaints at BIN No** - Total number of complaints on a property

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## Overview for Complaint

**Assigned To** - 2-digit code for type of Complaint

**Block** - Maximum 5 position field indicating tax block of property; acquired from DOF

**Borough** - Borough where complaint was filed

**Category Code** - 2-digit code for type of Complaint

**Community Board** - 3-digit identifier: Borough code = first position, last 2 = community board

**Complaint at** - Location of complaint - Borough, House Number and Street Name

**Disposition** - Complaint results

**Last Inspection** - Date of Last Inspection

**Lot** - Tax block assigned by Department of Finance

**Owner** - Name of property owner, complaint was filed against.

**Priority** - Code assigned depending on severity of complaint

**Received** - Date complaint was received

**ZIP** - Zip Code of location of property

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## DOB Violations

Use these codes within the violation number to help determine the type of DOB violation it is.

**B** - Boiler

**BDM** -Boiler

**BMD** - Boiler

**C** - Construction

**E** - Elevator

**EIT** - Elevator Safety Test

**ES** - Electric Sign

**LL5** - Local Law 5 of 1973 (Fire Safety in Office Buildings)

**LL10/80** - Local Law 10 of 1980 (Facades)

**LL 10/81** - Local Law 10 of 1981 (Elevator Safety Test)

**LL 16/84** - Local Law 16 of 1984 (Fire Safety)

**LL58** - Local Law 58-Filing to legalize work

**LL62/91** - Boiler

**NRF** - No Report Filed

**P** - Plumbing

**S** - Sign

**V** - DOB Violation

**VECB** - ECB Violation

**VP** - Violation Pending

**VPW** or **VW** - Violation Work Without a Permit

**ZW** - Zoning Violation

For a quick review of codes review the [\*\*Index Interpretation\*\*](#) document (10 kb in **Adobe® Acrobat® 5.0 -PDF** format).

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## ECB Query By Location

**A** - Active (A) - in violation or (D) - not currently in violation.[violation was dismissed or condition was corrected.]

**BIN#** - Unique 7-digit Building Identification Number, assigned by City Planning, to a specific building

**Block** - Tax block assigned by Department of Finance

**CB** - 3-digit identifier: Borough code = first position, last 2 = community board

**DOB VIOL NUMB** - Cross reference DOB violation number. Note first six digits are date violation was written

**ECB NUM** - Unique number of ECB violation

**INF CD** - Infraction Code identifying violation type

**Lot** - Tax lot assigned by Department of Finance

**PROV LAW** - Provisional Law/ Administrative code number cited in the violation

**RESPONDENT NAME** - Person/Company that was issued violation

**STATUS** - Various status codes: I.e. Pending/ Overdue/ Violation Dismissed

**VIOL TYPE** - Type of violation issued. I.e.. Elevator

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## ECB Query By Number

**AJR** - Date of ECB action to adjourn hearing to new date

**Amount Imposed** - ECB fine imposed at the hearing against the violation

**Amount Paid** - Amount paid by respondent against the imposed amount

**ASG** - Date assigned to Administrative Law Judge (ECB)

**BIN #** - Unique 7-digit Building Identification Number, assigned by City Planning, to a specific building

**Block** - Tax block assigned by Department of Finance

**CB** - 3-digit identifier: Borough code = first position, last 2 = community board

**COM** - Date of compliance

**Compl By Date** - Date compliance is required

**Compl Met Date** - Compliance Met Date

**Compl Met Flag** - Compliance Met - Yes/No

**Compl Status** - Status of compliance. [Compliance required correction of the violating condition and usually certification of correction]

**CUR** - Date violation was cured

**DEF** - Date defaulted at ECB hearing

**Delivered Date** - Date violation was served

**Device Number** - Boiler or Elevator device number that the violation pertains to

**Device Type** - Type of device violation issued to. I.e.. Elevator

**DOB Viol Number** - Cross reference DOB violation number. Note first six digits are date violation

was written

**ECB Violation Number** - Unique number of ECB violation

**First Infraction** - First section violated

**GEO Flag** - The geographical location of the building. The number one (1) indicates that the property is recognized by the Department of Buildings.

**Hearing Status** - Status of ECB hearing

**Hearing Time** - Scheduled time for hearing ECB violation

**HRG** - Date of hearing

**Infraction Codes** - Infraction codes identifying violation types. Also includes description of violation condition.

**Issuing Insp ID** - Badge number of inspector who issued the violation

**Location** - Location where the hearing will take place. (Borough specific)

**Location Info** - Location where violation was issued

**Lot** - Tax lot assigned by Department of Finance

**Reinspection Compliance** - Date re-inspected by DOB, property found in compliance, but certificate of correction may still be required

**Respondent Info** - Respondent name and address responsible for resolving the violation

**Sched Hrg Date** - Scheduled hearing date for ECB violation

**STIP ACC** - Date stipulation accepted

**Tax Lien Serv** - Yes/ No - Identifies whether a lien was, or is being, placed on this premises as a result of the violation

**Viol Issue Date** - Date violation was written

**Viol Type** - Type of ECB violation written. I.e. -Construction, Elevator, Boiler

**Violation Severity** - How severe the violation issued is. A= High, B = Moderate, C = Low

**WRI** - City violations only

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## **APPENDIX D**

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### **EDR DATABASE SEARCH**





## **The EDR Radius Map with GeoCheck®**

**Far Rockaway Former MGP  
Brunswick Avenue/B12th Street  
Far Rockaway, NY 11691**

**Inquiry Number: 891213.3s**

**December 03, 2002**

## ***The Source For Environmental Risk Management Data***

3530 Post Road  
Southport, Connecticut 06890

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

### TARGET PROPERTY INFORMATION

#### ADDRESS

BRUNSWICK AVENUE/B12TH STREET  
FAR ROCKAWAY, NY 11691

#### COORDINATES

Latitude (North):	40.610300 - 40° 36' 37.1"
Longitude (West):	73.748700 - 73° 44' 55.3"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	605857.8
UTM Y (Meters):	4496039.5

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2440073-E6 LAWRENCE, NY
Source:	USGS 7.5 min quad index

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ( "reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

### FEDERAL ASTM STANDARD

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP.....	CERCLIS No Further Remedial Action Planned
CORRACTS.....	Corrective Action Report
RCRIS-TSD.....	Resource Conservation and Recovery Information System
RCRIS-LQG.....	Resource Conservation and Recovery Information System
ERNS.....	Emergency Response Notification System

### STATE ASTM STANDARD

SWF/LF.....	Facility Register
CBS UST.....	Chemical Bulk Storage Database
VCP.....	Voluntary Cleanup Agreements
SWRCY.....	Registered Recycling Facility List

### FEDERAL ASTM SUPPLEMENTAL

CONSENT.....	Superfund (CERCLA) Consent Decrees
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## EXECUTIVE SUMMARY

<b>ROD</b>	Records Of Decision
<b>Delisted NPL</b>	National Priority List Deletions
<b>FINDS</b>	Facility Index System/Facility Identification Initiative Program Summary Report
<b>HMIRS</b>	Hazardous Materials Information Reporting System
<b>MLTS</b>	Material Licensing Tracking System
<b>MINES</b>	Mines Master Index File
<b>NPL Liens</b>	Federal Superfund Liens
<b>PADS</b>	PCB Activity Database System
<b>RAATS</b>	RCRA Administrative Action Tracking System
<b>TRIS</b>	Toxic Chemical Release Inventory System
<b>TSCA</b>	Toxic Substances Control Act
<b>SSTS</b>	Section 7 Tracking Systems
<b>FTTS</b>	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

### STATE OR LOCAL ASTM SUPPLEMENTAL

<b>HSWDS</b>	Hazardous Substance Waste Disposal Site Inventory
<b>AST</b>	Petroleum Bulk Storage
<b>CBS AST</b>	Chemical Bulk Storage Database

### EDR PROPRIETARY HISTORICAL DATABASES

<b>Coal Gas</b>	Former Manufactured Gas (Coal Gas) Sites
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### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### FEDERAL ASTM STANDARD

**RCRIS:** The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 09/09/2002 has revealed that there are 2 RCRIS-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>NEW YORK TELEPHONE CO</i></b> INWOOD LABORATORIES INC	<b><i>1221 REDFERN AVE</i></b> 300 PROSPECT ST	<b><i>0 - 1/8 N</i></b> 1/8 - 1/4 NE	<b><i>B2</i></b> D14	<b><i>8</i></b> 28

## EXECUTIVE SUMMARY

### STATE ASTM STANDARD

**SHWS:** The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
525 TO 535 BURNSIDE AVENUE	525-535 BURNSIDE AVENUE	1/2 - 1 N	43	93

**LTANKS:** Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 27 LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
PENDARZIS RESIDENCE	6 MONROE PLACE	1/8 - 1/4N	7	18
12-13 NEILSON ST	12-13 NEILSON ST	1/8 - 1/4SSW	11	22
12-13 NELSON ST	12-13 NELSON ST	1/4 - 1/2S	15	29
HUNTER AMBULANCE	28 SHERIDAN BLVD	1/4 - 1/2WNW	E16	30
<b>WECHTER PETROLEUM CORP</b>	<b>1 SHERIDAN BLVD</b>	<b>1/4 - 1/2W</b>	<b>F17</b>	<b>31</b>
<b>EAGLE OIL</b>	<b>1 SHERIDAN BLVD</b>	<b>1/4 - 1/2W</b>	<b>F18</b>	<b>33</b>
<b>ST MARYS MANOR</b>	<b>60 DOUGHTY BLVD</b>	<b>1/4 - 1/2NE</b>	<b>20</b>	<b>50</b>
REDFERN HOUSING	1468 BEACH CHANNEL DR	1/4 - 1/2W	21	52
ETWARU RESIDENCE	2122 NAMEOKE AVE	1/4 - 1/2SW	G22	53
POWERTEST	95 SHERIDAN BLVD	1/4 - 1/2NW	H24	54
SUNOCO GAS	105 SHERIDAN BLVD	1/4 - 1/2NW	H25	55
<b>SUNOCO SERVICE STATION</b>	<b>105 SHERIDAN BLVD</b>	<b>1/4 - 1/2NW</b>	<b>H26</b>	<b>56</b>
COMMON BASEMENT	116 SHERIDAN BLVD	1/4 - 1/2NW	27	61
13-11 BAYPORT PLACE	13-11 BAYPORT PLACE	1/4 - 1/2SSW	28	62
<b>LILCO</b>	<b>SHERIDAN BLVD/NASSAU BL</b>	<b>1/4 - 1/2NW</b>	<b>I29</b>	<b>63</b>
PRIDE	153 SHERIDAN BLVD	1/4 - 1/2NW	I30	65
SLOMINS OIL	113A DOUGHTY BLVD	1/4 - 1/2NNE	31	66
<b>J&amp;H CARPET</b>	<b>439 BAYVIEW AVENUE</b>	<b>1/4 - 1/2NNW</b>	<b>32</b>	<b>67</b>
SHELL OIL FACILITY	20 ROGER AVENUE	1/4 - 1/2NNW	J34	81
<b>SHELL OIL</b>	<b>20 ROGER AVENUE</b>	<b>1/4 - 1/2NNW</b>	<b>J35</b>	<b>82</b>
717 ELMONT RD	717 ELMONT RD	1/4 - 1/2SE	36	85
11-41 MCBRIDE ST	11041 MCBRIDE ST	1/4 - 1/2W	37	86
<b>RGR/DNEPR</b>	<b>213 SHERIDAN BLVD</b>	<b>1/4 - 1/2NNW</b>	<b>K38</b>	<b>87</b>
GAS STATION	213 SHERIDAN BLVD	1/4 - 1/2NNW	K39	89
115-05 BEACH CHANNEL DR	115-05 BEACH CHANNEL DR	1/4 - 1/2SW	40	90
DIBENSKI RESIDENCE	6 FOREST LANE	1/4 - 1/2ESE	41	91
RESIDENCE	17 BEECHWOOD DRIVE	1/4 - 1/2ESE	42	92

## EXECUTIVE SUMMARY

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 7 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
REDFERN	1270 REDFERN AVENUE	0 - 1/8 NW	A1	6
<b>BELL ATLANTIC</b>	<b>12-11 REDFERN AVENUE</b>	<b>0 - 1/8 N</b>	<b>B5</b>	<b>11</b>
<b>FAR ROCKWAY NURSING HOME</b>	<b>13-11 VIRGINIA ST</b>	<b>1/8 - 1/4 E</b>	<b>C8</b>	<b>19</b>
833 CENTRAL OWNERS CORP	8-33 CENTRAL AVENUE	1/8 - 1/4 E	C9	21
INACTIVE	21 REDFERN AVE	1/8 - 1/4 NE	10	22
FOREST LABORATORIES	303 PROSPECT ST	1/8 - 1/4 NE	D12	23
<b>TOWN OF CLAVERACK</b>	<b>RT 217</b>	<b>1/8 - 1/4 WNW</b>	<b>E13</b>	<b>23</b>

**MOSF UST:** Major Oil Storage Facilities Database. Facilities are licensed pursuant to Article 12 of the Navigation Law, 6 NYCRR Part 610 and 17 NYCRR Part 30. These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. Includes MOSF's licensed or closed since April 1, 1986, (responsibility was transferred from DOT on October 13, 1985) plus available data obtained from DOT facilities licensed since Article 12 became law on April 1, 1978.

A review of the MOSF UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 MOSF UST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>OIL CO., INC.</b>	<b>ONE SHERIDAN BLVD.</b>	<b>1/4 - 1/2 W</b>	<b>E19</b>	<b>35</b>
<b>SHELL OIL COMPANY</b>	<b>20 ROGER AVENUE</b>	<b>1/4 - 1/2 NNW</b>	<b>J33</b>	<b>69</b>

**SWTIRE:** Registered Waste Tire Storage & Facility List from the Department of Environmental Conservation.

A review of the SWTIRE list, as provided by EDR, and dated 09/01/2001 has revealed that there is 1 SWTIRE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
COLETTA RECYCLING CORP.	1629 REDFERN AVE.	1/4 - 1/2 SW	G23	54

### STATE OR LOCAL ASTM SUPPLEMENTAL

**MOSF AST:** Major Oil Storage Facilities Database. Facilities are licensed pursuant to Article 12 of the Navigation Law, 6 NYCRR Part 610 and 17 NYCRR Part 30. These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. Includes MOSF's licensed or closed since April 1, 1986, (responsibility was transferred from DOT on October 13, 1985) plus available data obtained from DOT facilities licensed since Article 12 became law on April 1, 1978.

A review of the MOSF AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 MOSF AST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>OIL CO., INC.</b>	<b>ONE SHERIDAN BLVD.</b>	<b>1/4 - 1/2 W</b>	<b>E19</b>	<b>35</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>SHELL OIL COMPANY</i></b>	<b><i>20 ROGER AVENUE</i></b>	<b><i>1/4 - 1/2NNW</i></b>	<b><i>J33</i></b>	<b><i>69</i></b>

**SPILLS:** Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, has revealed that there are 3 NY Spills sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
12-21 RED FERN AVENUE	12-21 RED FERN AVENUE	0 - 1/8 N	B3	9
1211 REDFERN AVE	1211 REDFERN AVE	0 - 1/8 N	B4	10
Not reported	13-02 REDFERN AVE	0 - 1/8 WNW	A6	17

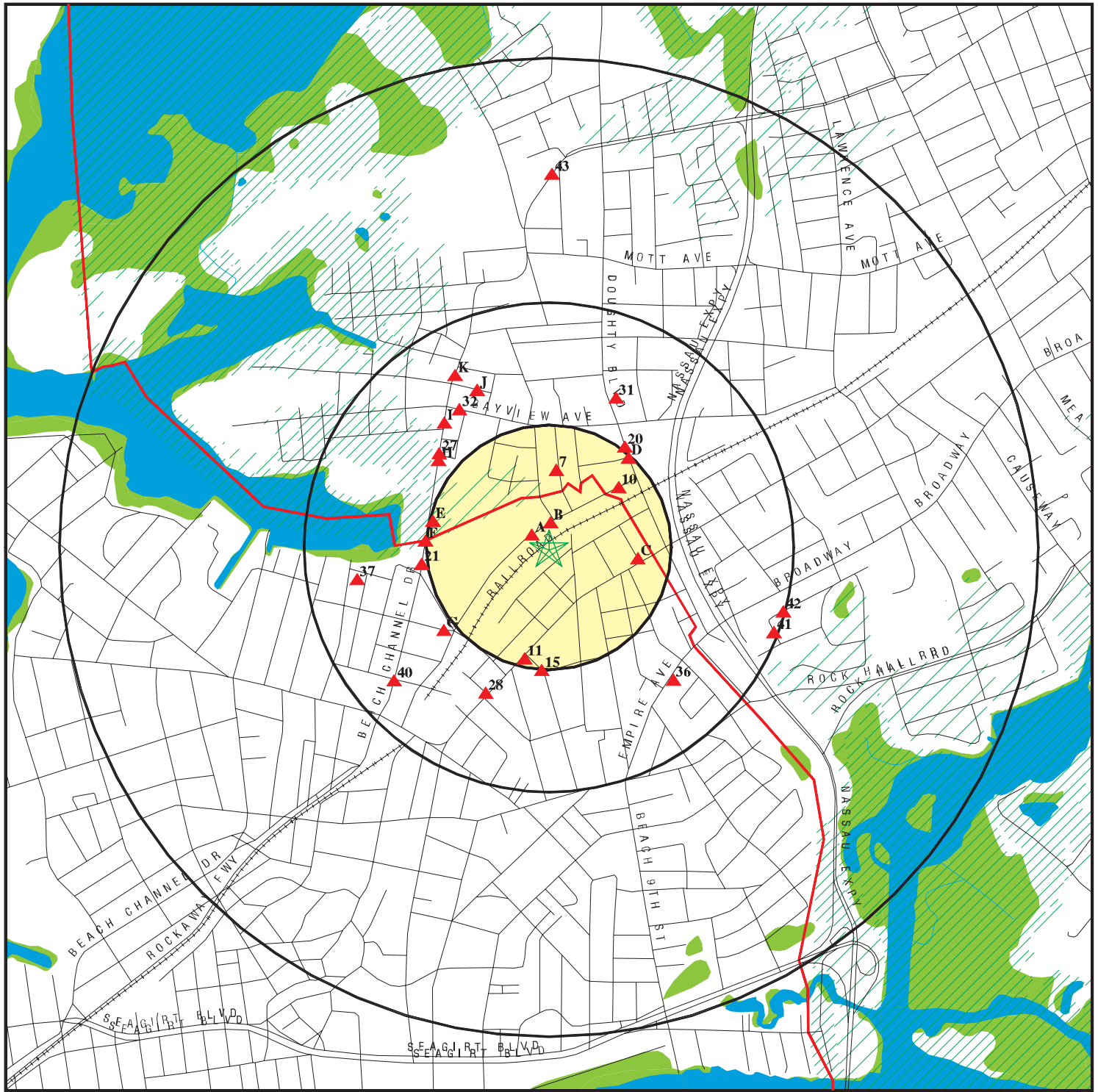
## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
180 BEACH 117 ST	LTANKS
UNK LI TRUCKING	LTANKS, NY Spills
NC ATLANTIC BEACH BRIDGE AUTHORITY	UST
CHANNEL BREEZE CLEANERS	RCRIS-SQG, FINDS
ROYAL INFLITE SERVICE LLC	RCRIS-SQG, FINDS
NASSAU COUNTY BRIDGE AUTH	RCRIS-SQG, FINDS
NYC DEPT OF PARKS & RECREATION	RCRIS-SQG, FINDS
FAR ROCKAWAY GENERATOR PLANT BAY 24TH ST	ERNs
EAST ROCKAWAY INLET	ERNs
ROCKAWAY MARINA	NY Spills
BEACH 63RD/ALAMEDA/MORRIS	NY Spills
BEACH 19TH ST/ST JOHNS	NY Spills
BEACH 96TH STREET	NY Spills
BEACH 9TH STREET	NY Spills
BEACH 17TH ST & SIGERT ST	NY Spills
BEACH 68TH ST / ALMEDAN	NY Spills
OCEANVIEW NURSING HOME	NY Spills
LAND	NY Spills
POLE 7	NY Spills
MANHOLE 30277	NY Spills
LIRR/INWOOD STA/REDFERN	NY Spills
BEACH 87TH ST	NY Spills
216 ROCKAWAY BEACH BL	NY Spills
LILCO	NY Spills
PUMP STATION	NY Spills
INWOOD TERMINAL	NY Spills
UNK	NY Spills
UNK	NY Spills
LILCO - EDGEMERE SUBSTATION	VCP
EDGEMERE RECYC.	SWRCY
HEMPSTEAD GAS & ELECTRIC LIGHT CO.	Coal Gas



# OVERVIEW MAP - 891213.3s - Paulus Sokolowski & Sartor



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Coal Gasification Sites

▣ National Priority List Sites

▣ Landfill Sites

— County Boundary

— Power transmission lines

— Oil & Gas pipelines

▨ 100-year flood zone

▨ 500-year flood zone

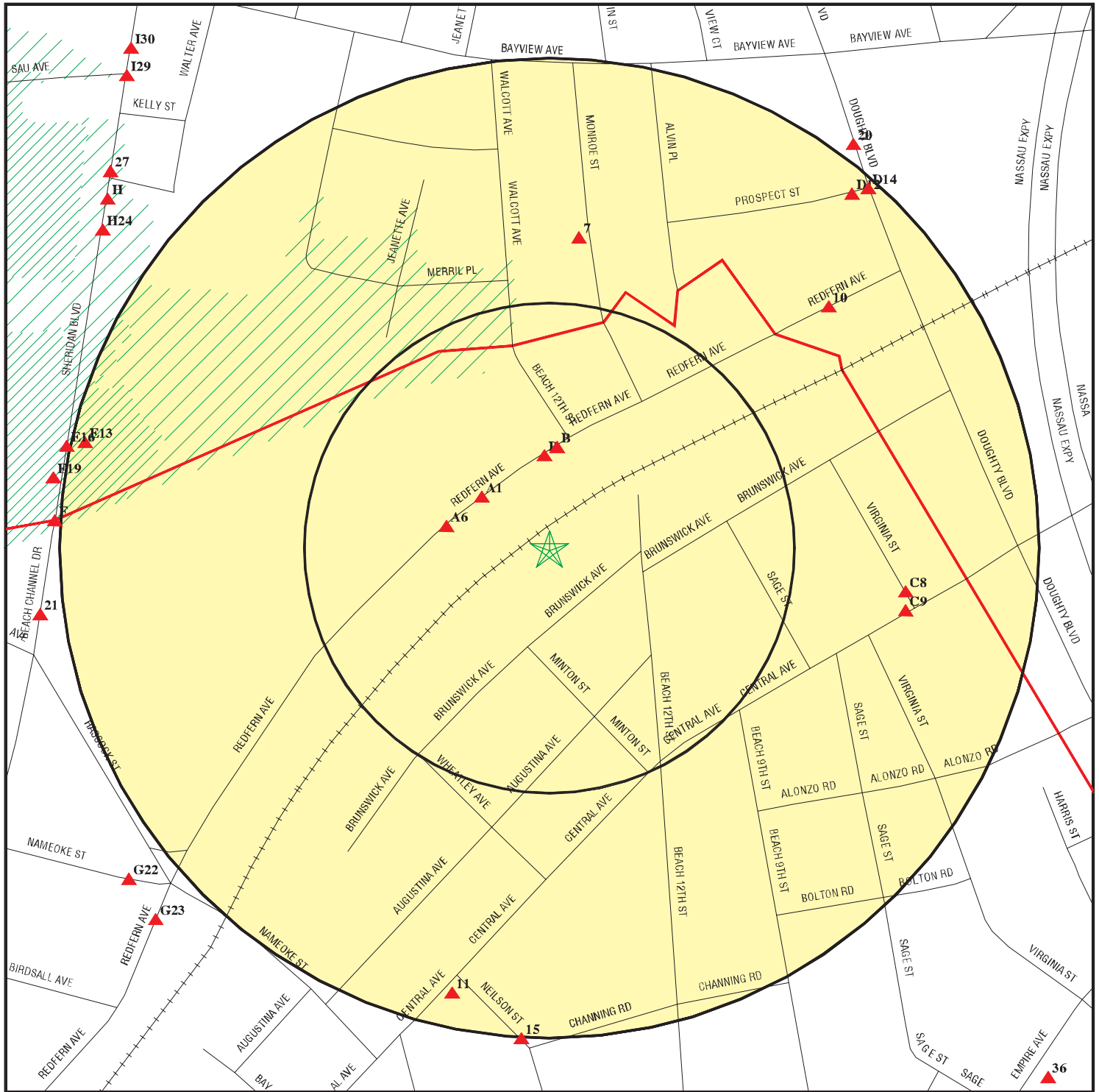
■ Wetlands

TARGET PROPERTY: Far Rockaway Former MGP  
ADDRESS: Brunswick Avenue/B12th Street  
CITY/STATE/ZIP: Far Rockaway NY 11691  
LAT/LONG: 40.6103 / 73.7487

CUSTOMER: Paulus Sokolowski & Sartor  
CONTACT: John Pastorick  
INQUIRY #: 891213.3s  
DATE: December 03, 2002 5:22 pm

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# DETAIL MAP - 891213.3s - Paulus Sokolowski & Sartor



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚡ Coal Gasification Sites
- ⚡ Sensitive Receptors
- ⚡ National Priority List Sites
- ⚡ Landfill Sites

- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

TARGET PROPERTY: Far Rockaway Former MGP  
 ADDRESS: Brunswick Avenue/B12th Street  
 CITY/STATE/ZIP: Far Rockaway NY 11691  
 LAT/LONG: 40.6103 / 73.7487

CUSTOMER: Paulus Sokolowski & Sartor  
 CONTACT: John Pastorick  
 INQUIRY #: 891213.3s  
 DATE: December 03, 2002 5:23 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL ASTM STANDARD</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	1	NR	NR	NR	2
ERNS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE ASTM STANDARD</u></b>								
State Haz. Waste		1.000	0	0	0	1	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
LTANKS		0.500	0	2	25	NR	NR	27
UST		0.250	2	5	NR	NR	NR	7
CBS UST		0.250	0	0	NR	NR	NR	0
MOSF UST		0.500	0	0	2	NR	NR	2
VCP		0.500	0	0	0	NR	NR	0
SWTIRE		0.500	0	0	1	NR	NR	1
SWRCY		0.500	0	0	0	NR	NR	0
<b><u>FEDERAL ASTM SUPPLEMENTAL</u></b>								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE OR LOCAL ASTM SUPPLEMENTAL</u></b>								
HSWDS		0.500	0	0	0	NR	NR	0
AST		TP	NR	NR	NR	NR	NR	0
CBS AST		0.250	0	0	NR	NR	NR	0
MOSF AST		0.500	0	0	2	NR	NR	2
NY Spills		0.125	3	NR	NR	NR	NR	3

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
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### EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas		1.000	0	0	0	0	NR	0
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

\* Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.**

**A1  
NW  
< 1/8  
229 ft.  
Higher**

**REDFERN  
1270 REDFERN AVENUE  
FAR ROCKAWAY, NY 11691**

**UST U000410840  
N/A**

**Site 1 of 2 in cluster A**

**PBS UST:**

PBS Number: 2-475564 CBS Number: Not reported  
SPDES Number: Not reported SWIS ID: 6301  
Operator: LUIS PONCE  
(718) 707-5725

Emergency Contact: EMERGENCY SERVICE DEPT.  
(718) 289-3940

Total Tanks: 1  
Owner: NYC HOUSING AUTHORITY  
23-02 49TH AVENUE  
LONG ISLAND CITY, NY 11101  
(718) 707-5725

Owner Type: Local Government

Owner Mark: First Owner

Owner Subtype: 51

Mailing Address: NYC HOUSING AUTHORITY  
ATTN: LUIS PONCE  
23-02 49TH AVENUE  
LONG ISLAND CITY, NY 11101  
(718) 707-5725

Tank Status: Closed - In Place

Capacity (gals): 15000

Tank Location: UNDERGROUND

Tank Id: OLD 1

Tank Type: Steel/carbon steel

Tank Internal: NONE

Pipe Location: Underground

Tank External: Not reported

Missing Data for Tank: Minor Data Missing

Pipe External: WRAPPED [PIPING]

Second Containment: NONE

Leak Detection: NONE

Overfill Prot: Product Level Gauge

Date Tested: 11/01/1990

Date Closed: 06/01/1993

Deleted: False

Dead Letter: False

FAMT: Fiscal amount for registration fee is correct

Total Capacity: 25000

Tank Screen: Minor data missing

Renew Flag: Renewal has not been printed

Certification Flag: True

Old PBS Number: Not reported

Inspected Date: Not reported

Inspection Result: Not reported

Lat/long: Not reported

Facility Type: APARTMENT BUILDING

Town or City: NEW YORK CITY

Town or City Code: 01

Install Date: 06/01/1959  
Product Stored: EMPTY  
Pipe Internal: Not reported  
Pipe Type: GALVANIZED STEEL

Dispenser: Suction  
Next Test Date: Not reported  
Test Method: HORNER  
Updated: True  
Owner Screen: Minor data missing

Renewal Date: Not reported  
Federal ID: Not reported  
Facility Screen: No data missing  
Certification Date: 12/28/2001  
Expiration Date: 03/28/2004  
Inspector: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

REDFERN (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U000410840

County Code:	63		
Region:	2		
PBS Number:	2-475564	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	6301
Operator:	LUIS PONCE (718) 707-5725		
Emergency Contact:	EMERGENCY SERVICE DEPT. (718) 289-3940		
Total Tanks:	1		
Owner:	NYC HOUSING AUTHORITY 23-02 49TH AVENUE LONG ISLAND CITY, NY 11101 (718) 707-5725		
Owner Type:	Local Government		
Owner Mark:	First Owner		
Owner Subtype:	51		
Mailing Address:	NYC HOUSING AUTHORITY ATTN: LUIS PONCE 23-02 49TH AVENUE LONG ISLAND CITY, NY 11101 (718) 707-5725		
Tank Status:	Closed - In Place		
Capacity (gals):	15000		
Tank Location:	UNDERGROUND		
Tank Id:	OLD 2	Install Date:	06/01/1959
Tank Type:	Steel/carbon steel	Product Stored:	EMPTY
Tank Internal:	NONE	Pipe Internal:	Not reported
Pipe Location:	Underground	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	WRAPPED [PIPING]		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	11/01/1990	Next Test Date:	Not reported
Date Closed:	06/01/1993	Test Method:	HORNER
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	Minor data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	25000	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	True	Certification Date:	12/28/2001
Old PBS Number:	Not reported	Expiration Date:	03/28/2004
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	APARTMENT BUILDING		
Town or City:	NEW YORK CITY		
Town or City Code:	01		
County Code:	63		
Region:	2		
PBS Number:	2-475564	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	6301
Operator:	LUIS PONCE		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

REDFERN (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U000410840

Emergency Contact: (718) 707-5725  
EMERGENCY SERVICE DEPT.  
(718) 289-3940

Total Tanks: 1

Owner: NYC HOUSING AUTHORITY  
23-02 49TH AVENUE  
LONG ISLAND CITY, NY 11101  
(718) 707-5725

Owner Type: Local Government

Owner Mark: First Owner

Owner Subtype: 51

Mailing Address: NYC HOUSING AUTHORITY  
ATTN: LUIS PONCE  
23-02 49TH AVENUE  
LONG ISLAND CITY, NY 11101  
(718) 707-5725

Tank Status: In Service

Capacity (gals): 25000

Tank Location: UNDERGROUND

Tank Id: 1

Tank Type: Steel/carbon steel

Tank Internal: Not reported

Pipe Location: Underground

Tank External: Not reported

Missing Data for Tank: Minor Data Missing

Pipe External: WRAPPED [PIPING]

Second Containment: Not reported

Leak Detection: Not reported

Overfill Prot: Catch Basin, Product Level Gauge

Date Tested: 04/12/2000

Date Closed: Not reported

Deleted: False

Dead Letter: False

FAMT: Fiscal amount for registration fee is correct

Total Capacity: 25000

Tank Screen: Minor data missing

Renew Flag: Renewal has not been printed

Certification Flag: True

Old PBS Number: Not reported

Inspected Date: Not reported

Inspection Result: Not reported

Lat/long: Not reported

Facility Type: APARTMENT BUILDING

Town or City: NEW YORK CITY

Town or City Code: 01

County Code: 63

Region: 2

Install Date: 12/01/1981

Product Stored: NOS 1,2, OR 4 FUEL OIL

Pipe Internal: Not reported

Pipe Type: STEEL/IRON

Dispenser: Suction

Next Test Date: 04/12/2005

Test Method: 21

Updated: True

Owner Screen: Minor data missing

Renewal Date: Not reported

Federal ID: Not reported

Facility Screen: No data missing

Certification Date: 12/28/2001

Expiration Date: 03/28/2004

Inspector: Not reported

B2  
North  
< 1/8  
251 ft.  
Higher

NEW YORK TELEPHONE CO  
1221 REDFERN AVE  
FAR ROCKAWAY, NY 11691

Site 1 of 4 in cluster B

RCRIS-SQG 1000791559  
FINDS NYD987030723

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**NEW YORK TELEPHONE CO (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**1000791559**

RCRIS:

Owner: NEW YORK TELEPHONE CO  
(212) 555-1212  
EPA ID: NYD987030723  
Contact: PHIL TEDESCO  
(718) 726-9909

Classification: Small Quantity Generator  
Used Oil Recyc: No  
TSDF Activities: Not reported  
Violation Status: No violations found

NY MANIFEST

Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

FINDS:

Other Pertinent Environmental Activity Identified at Site:  
Facility Registry System (FRS)  
Resource Conservation and Recovery Act Information system (RCRAINFO)

**B3  
North  
< 1/8  
251 ft.  
Higher**

**12-21 RED FERN AVENUE  
12-21 RED FERN AVENUE  
FAR ROCKAWAY, NY**

**NY Spills S102238938  
N/A**

**Site 2 of 4 in cluster B**

SPILLS:

Spill Number:	9703974	Region of Spill:	2
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	TIBBE	SWIS:	63
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
Spiller Contact:	ANTHONY GORMAN	Spiller Phone:	(718) 471-9939
Spiller:	NYNEX		
Spiller Address:	12-21 RED FERN AVE FAR ROCKAWAY, NY		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	Not reported		
Spill Cause:	Equipment Failure	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Commercial Vehicle
Spill Notifier:	Other	PBS Number:	Not reported
Spill Date:	07/02/1997 07:30	Reported to Dept:	07/02/1997 10:00
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	07/03/1997		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	07/02/1997		
Date Region Sent Summary to Central Office:	Not reported		



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

12-21 RED FERN AVENUE (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S102238938

Tank Test:

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

Material:

Material Class Type: 1  
Quantity Spilled: 40  
Units: Gallons  
Unknown Qty Spilled: 40  
Quantity Recovered: 40  
Unknown Qty Recovered: False  
Material: HYDRAULIC OIL  
Class Type: Petroleum  
Chem Abstract Service Number: HYDRAULIC OIL  
Last Date: 07/28/1994  
Num Times Material Entry In File: 1846

Remarks: broken hydraulic line on truck - spill being cleaned up  
DEC Remarks: CALLED A. gORMAN- NOT IN; CALLED MILRO- ASPHALT ON STREET

This is the most recent NY SPILLS record for this site.  
The NY SPILLS database contains 1 additional record for this site.  
Please contact your EDR Account Executive for more information.

B4  
North  
< 1/8  
274 ft.  
Higher

1211 REDFERN AVE  
1211 REDFERN AVE  
QUEENS, NY

NY Spills S102961977  
N/A

Site 3 of 4 in cluster B

SPILLS:

Spill Number: 9710789  
Facility Contact: JEROME KUNG  
Investigator: TIBBE  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: JEROME KUNG  
Spiller: 1211 REDFERN AVE  
Spiller Address: 1211 REDFERN AVE  
QUEENS, NY  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Spill Closed Dt: 05/02/2000  
Spill Cause: Equipment Failure  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Spill Date: 12/22/1997 18:24  
Cleanup Ceased: Not reported  
Last Inspection: Not reported  
Cleanup Meets Standard: False  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Region of Spill: 2  
Facility Tele: (212) 338-6754  
SWIS: 60  
Caller Agency: Not reported  
Caller Extension: Not reported  
Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: (212) 338-6754  
Resource Affected: On Land  
Spill Source: Other Commercial/Industrial  
PBS Number: Not reported  
Reported to Dept: 12/22/1997 18:24

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

1211 REDFERN AVE (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S102961977

Spill Record Last Update: 05/02/2000  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 12/22/1997  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
PBS Number: Not reported  
Tank Number: Not reported  
Test Method: Not reported  
Capacity of Failed Tank: Not reported  
Leak Rate Failed Tank: Not reported  
Gross Leak Rate: Not reported  
Material:  
Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: HYDRAULIC OIL  
Class Type: Petroleum  
Chem Abstract Service Number: HYDRAULIC OIL  
Last Date: 07/28/1994  
Num Times Material Entry In File: 1846  
Remarks: caller doing site work, found contaminated soil.  
DEC Remarks: SEE FILE

B5  
North  
< 1/8  
274 ft.  
Higher

BELL ATLANTIC  
12-11 REDFERN AVENUE  
FAR ROCKWAY, NY 11691

UST U003074709  
AST N/A

Site 4 of 4 in cluster B

PBS UST:  
PBS Number: 2-343773 CBS Number: Not reported  
SPDES Number: Not reported SWIS ID: 6301  
Operator: BELL ATLANTIC  
(800) 339-6144  
Emergency Contact: BELL ATLANTIC  
(800) 386-9639  
Total Tanks: 3  
Owner: NEW YORK TELEPHONE  
221 EAST 37TH STREET, 4TH FLOOR  
NEW YORK, NY 10016  
(800) 339-6144  
Owner Type: Corporate/Commercial  
Owner Mark: First Owner  
Owner Subtype: New York Telephone  
Mailing Address: BELL ATLANTIC  
ATTN: KATHLEEN TOBIN  
221 EAST 37TH STREET, 4TH FLOOR  
NEW YORK, NY 10016  
(212) 338-6731  
Tank Status: In Service  
Capacity (gals): 4000  
Tank Location: UNDERGROUND  
Tank Id: 007  
Tank Type: Fiberglass reinforced plastic [FRP] Install Date: 08/01/1993  
Tank Internal: FIBERGLASS LINER [FRP] Product Stored: UNLEADED GASOLINE  
Pipe Internal: FIBERGLASS LINER [FRP]

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**BELL ATLANTIC (Continued)**

**U003074709**

Pipe Location:	Underground	Pipe Type:	FIBERGLASS [FRP]
Tank External:	NONE/FIBERGLASS		
Missing Data for Tank:	No Missing Data		
Pipe External:	NONE/FIBERGLASS		
Second Containment:	NONE/DOUBLED-WALLED TANK		
Leak Detection:	INTERSTITIAL MONITORING/IN-TANK SYSTEM		
Overfill Prot:	High Level Alarm, Catch Basin	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	Not reported	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	8275	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	07/30/1999
Old PBS Number:	Not reported	Expiration Date:	12/14/2002
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	UTILITY		
Town or City:	NEW YORK CITY		
Town or City Code:	01		
County Code:	63		
Region:	2		
PBS Number:	2-343773	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	6301
Operator:	BELL ATLANTIC (800) 339-6144		
Emergency Contact:	BELL ATLANTIC (800) 386-9639		
Total Tanks:	3		
Owner:	NEW YORK TELEPHONE 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016 (800) 339-6144		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	New York Telephone		
Mailing Address:	BELL ATLANTIC ATTN: KATHLEEN TOBIN 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016 (212) 338-6731		
Tank Status:	In Service		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank Id:	008	Install Date:	08/01/1993
Tank Type:	Fiberglass reinforced plastic [FRP]	Product Stored:	DIESEL
Tank Internal:	FIBERGLASS LINER [FRP]	Pipe Internal:	FIBERGLASS LINER [FRP]
Pipe Location:	Underground	Pipe Type:	FIBERGLASS [FRP]
Tank External:	NONE/FIBERGLASS		
Missing Data for Tank:	No Missing Data		
Pipe External:	NONE/FIBERGLASS		
Second Containment:	NONE/DOUBLED-WALLED TANK		
Leak Detection:	INTERSTITIAL MONITORING/IN-TANK SYSTEM		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**BELL ATLANTIC (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**U003074709**

Overfill Prot:	High Level Alarm, Catch Basin	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	Not reported	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	8275	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	07/30/1999
Old PBS Number:	Not reported	Expiration Date:	12/14/2002
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	UTILITY		
Town or City:	NEW YORK CITY		
Town or City Code:	01		
County Code:	63		
Region:	2		
PBS Number:	2-343773	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	6301
Operator:	BELL ATLANTIC (800) 339-6144		
Emergency Contact:	BELL ATLANTIC (800) 386-9639		
Total Tanks:	3		
Owner:	NEW YORK TELEPHONE 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016 (800) 339-6144		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	New York Telephone		
Mailing Address:	BELL ATLANTIC ATTN: KATHLEEN TOBIN 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016 (212) 338-6731		
Tank Status:	Closed - Removed		
Capacity (gals):	550		
Tank Location:	UNDERGROUND		
Tank Id:	001	Install Date:	Not reported
Tank Type:	Steel/carbon steel	Product Stored:	UNLEADED GASOLINE
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	1	Pipe Type:	STEEL/IRON
Tank External:	NONE/NONE		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	2	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	05/01/1993	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**BELL ATLANTIC (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**U003074709**

Total Capacity:	8275	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	07/30/1999
Old PBS Number:	Not reported	Expiration Date:	12/14/2002
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	UTILITY		
Town or City:	NEW YORK CITY		
Town or City Code:	01		
County Code:	63		
Region:	2		
PBS Number:	2-343773	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	6301
Operator:	BELL ATLANTIC (800) 339-6144		
Emergency Contact:	BELL ATLANTIC (800) 386-9639		
Total Tanks:	3		
Owner:	NEW YORK TELEPHONE 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016 (800) 339-6144		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	New York Telephone		
Mailing Address:	BELL ATLANTIC ATTN: KATHLEEN TOBIN 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016 (212) 338-6731		
Tank Status:	Closed - Removed		
Capacity (gals):	550		
Tank Location:	UNDERGROUND		
Tank Id:	002	Install Date:	Not reported
Tank Type:	Steel/carbon steel	Product Stored:	UNLEADED GASOLINE
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	1	Pipe Type:	STEEL/IRON
Tank External:	NONE/NONE		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	2	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	05/01/1993	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	8275	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	07/30/1999
Old PBS Number:	Not reported	Expiration Date:	12/14/2002
Inspected Date:	Not reported	Inspector:	Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**BELL ATLANTIC (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**U003074709**

Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	UTILITY		
Town or City:	NEW YORK CITY		
Town or City Code:	01		
County Code:	63		
Region:	2		
PBS Number:	2-343773	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	6301
Operator:	BELL ATLANTIC (800) 339-6144		
Emergency Contact:	BELL ATLANTIC (800) 386-9639		
Total Tanks:	3		
Owner:	NEW YORK TELEPHONE 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016 (800) 339-6144		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	New York Telephone		
Mailing Address:	BELL ATLANTIC ATTN: KATHLEEN TOBIN 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016 (212) 338-6731		
Tank Status:	Closed - Removed		
Capacity (gals):	550		
Tank Location:	UNDERGROUND		
Tank Id:	003	Install Date:	Not reported
Tank Type:	Steel/carbon steel	Product Stored:	UNLEADED GASOLINE
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	1	Pipe Type:	STEEL/IRON
Tank External:	NONE/NONE		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	2	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	05/01/1993	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	8275	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	07/30/1999
Old PBS Number:	Not reported	Expiration Date:	12/14/2002
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	UTILITY		
Town or City:	NEW YORK CITY		
Town or City Code:	01		
County Code:	63		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**BELL ATLANTIC (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

Region: 2

**U003074709**

This is the most recent NY PBS data for this site.  
The NY PBS database contains 2 additional records for this site.  
Please contact your EDR Account Executive for more information.

**PBS AST:**

PBS Number:	2-343773	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS Code:	6301
Federal ID:	Not reported	Previous PBS#:	Not reported
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Facility Type:	UTILITY		
Owner Type:	Corporate/Commercial		
Owner Sub Type:	New York Telephone		
Owner:	NEW YORK TELEPHONE 221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016		
Owner Phone:	(800) 339-6144		
Facility Phone:	(800) 339-6144		
Operator:	BELL ATLANTIC		
Emergency Name:	BELL ATLANTIC		
Emergency Phone:	(800) 386-9639		
Total Tanks:	3		
Total Capacity:	8275		
Tank ID:	009		
Capacity (Gal):	275		
Missing Data for Tank :	Minor data missing		
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Product Stored:	USED OIL		
Tank Type:	Steel/carbon steel		
Install Date:	08/01/1993		
Tank Internal:	NONE		
Tank External:	NONE/PAINTED/ASPHALT COATING		
Tank Containment:	NONE/DOUBLED-WALLED TANK		
Pipe Type:	NONE		
Pipe Location:	None		
Pipe Internal:	NONE		
Pipe External:	NONE/NONE		
Leak Detection:	NONE/NONE		
Overfill Protection:	Product Level Gauge, Catch Basin		
Dispenser Method:	Not reported		
Date Tested:	/ /	Next Test Date:	/ /
Date Closed:	/ /	Test Method:	Not reported
Updated:	True	Deleted:	False
Date Inspected:	Not reported	Inspector:	Not reported
Result of Inspection:	Not reported		
Mailing Name:	BELL ATLANTIC		
Mailing Address:	221 EAST 37TH STREET, 4TH FLOOR NEW YORK, NY 10016		
Mailing Contact:	KATHLEEN TOBIN		
Mailing Telephone:	(212) 338-6731		
Owner Mark:	First Owner	Expiration Date:	12/14/2002
Certification Flag:	False	Certification Date:	07/30/1999
Renew Flag:	False	Renew Date:	/ /
Lat/Long:	Not reported		
Dead Letter:	False		
Facility Screen:	No data missing		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**BELL ATLANTIC (Continued)**

EDR ID Number  
EPA ID Number

**U003074709**

Owner Screen: No data missing  
Tank Screen: Minor data missing  
Town or City: NEW YORK CITY  
Town or City Code: 01  
County Code: 63  
Region: 2  
Fiscal Amount for Registration Fee is Correct: True

**A6  
WNW  
< 1/8  
284 ft.  
Higher**

**13-02 REDFERN AVE  
QUEENS, NY**

**NY Spills S104649266  
N/A**

**Site 2 of 2 in cluster A**

**SPILLS:**

Spill Number:	9903890	Region of Spill:	2
Facility Contact:	MR CLAUS	Facility Tele:	(516) 792-2643
Investigator:	TIBBE	SWIS:	63
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	LONG ISLAND POWER AUTHORI		
Spiller Address:	-		
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	07/08/1999		
Spill Cause:	Other	Resource Affected:	In Sewer
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Spill Notifier:	Fire Department	PBS Number:	Not reported
Spill Date:	07/05/1999 17:08	Reported to Dept:	07/05/1999 18:58
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	07/08/1999		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	07/05/1999		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	0		
Units:	Gallons		
Unknown Qty Spilled:	No		
Quantity Recovered:	0		
Unknown Qty Recovered:	False		



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S104649266

Material: TRANSFORMER OIL  
Class Type: Petroleum  
Chem Abstract Service Number: TRANSFORMER OIL  
Last Date: 09/26/1994  
Num Times Material Entry In File: 533  
Remark: fdny reporting a transformer fire at above location. a leak resulted from fire and product has gone into sewer, unknown amounts. long island power authority to clean.  
DEC Remarks: SEE ALSO 99-03887. CLEANED BY LIPA.

7  
North  
1/8-1/4  
841 ft.  
Higher

PENDARZIS RESIDENCE  
6 MONROE PLACE  
INWOOD, NY

LTANKS S104877046  
N/A

LTANKS:

Spill Number: 0008549  
Facility Contact: PENDARZIS, EDWARD  
Investigator: DONOVAN  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: PENDARZIS, EDWARD  
Spiller: EDWARD PENDARZIS RESIDENCE  
Spiller Address: 6 MONROE PLACE  
INWOOD, NY  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Spill Closed Dt: Not reported  
Spill Cause: Tank Failure  
Water Affected: Not reported  
Spill Notifier: Other  
Spill Date: 10/22/2000 14:20  
Cleanup Ceased: Not reported  
Last Inspection: Not reported  
Cleanup Meets Standard: False  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 10/24/2000  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 10/22/2000  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
PBS Number: Not reported  
Tank Number: Not reported  
Test Method: Not reported  
Capacity of Failed Tank: Not reported  
Leak Rate Failed Tank: Not reported  
Gross Leak Rate: Not reported  
Material:  
Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

PENDARZIS RESIDENCE (Continued)

EDR ID Number  
EPA ID Number

S104877046

Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464  
DEC Remarks: Not reported  
Spill Cause: tank leaked outside

C8  
East  
1/8-1/4  
967 ft.  
Higher

FAR ROCKWAY NURSING HOME  
13-11 VIRGINIA ST  
FAR ROCKAWAY, NY 11691  
Site 1 of 2 in cluster C

UST U003074416  
AST N/A

PBS UST:

PBS Number: 2-145572  
SPDES Number: Not reported  
Operator: ARON FEUGREISEN  
(718) 327-2909

CBS Number: Not reported  
SWIS ID: 6301

Emergency Contact: FLEET UTILITIES  
(718) 634-8447

Total Tanks: 2  
Owner: FAR ROCKWAY NURSING HOME  
13-11 VIRGINIA ST  
FAR ROCKAWAY, NY 11691  
(718) 327-2909

Owner Type: Corporate/Commercial  
Owner Mark: First Owner  
Owner Subtype: Not reported  
Mailing Address: FAR ROCKWAY NURSING HOME  
ATTN: ARON FEUEREISS  
13-11 VIRGINIA ST  
FAR ROCKAWAY, NY 11691  
(718) 327-2909

Tank Status: In Service  
Capacity (gals): 5000  
Tank Location: UNDERGROUND  
Tank Id: 001  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Pipe Location: 1  
Tank External: Not reported

Install Date: Not reported  
Product Stored: NOS 1,2, OR 4 FUEL OIL  
Pipe Internal: Not reported  
Pipe Type: STEEL/IRON

Missing Data for Tank: Minor Data Missing  
Pipe External: Not reported  
Second Containment: NONE

Leak Detection: NONE  
Overfill Prot: Product Level Gauge

Dispenser: Suction  
Next Test Date: 05/01/2003  
Test Method: HORNER  
Updated: True  
Owner Screen: Minor data missing

Date Tested: 05/01/1998  
Date Closed: Not reported  
Deleted: False  
Dead Letter: False  
FAMT: Fiscal amount for registration fee is correct  
Total Capacity: 5275  
Tank Screen: Minor data missing  
Renew Flag: Renewal has not been printed  
Certification Flag: False

Renewal Date: Not reported  
Federal ID: Not reported  
Facility Screen: No data missing  
Certification Date: 07/29/1997

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**FAR ROCKWAY NURSING HOME (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**U003074416**

Old PBS Number:	Not reported	Expiration Date:	08/24/2002
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	OTHER		
Town or City:	NEW YORK CITY		
Town or City Code:	01		
County Code:	63		
Region:	2		
PBS AST:			
PBS Number:	2-145572	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS Code:	6301
Federal ID:	Not reported	Previous PBS#:	Not reported
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Facility Type:	OTHER		
Owner Type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Owner:	FAR ROCKWAY NURSING HOME 13-11 VIRGINIA ST FAR ROCKAWAY, NY 11691		
Owner Phone:	(718) 327-2909		
Facility Phone:	(718) 327-2909		
Operator:	ARON FEUGREISEN		
Emergency Name:	FLEET UTILITIES		
Emergency Phone:	(718) 634-8447		
Total Tanks:	2		
Total Capacity:	5275		
Tank ID:	002		
Capacity (Gal):	275		
Missing Data for Tank :	Minor data missing		
Tank Location:	ABOVEGROUND		
Product Stored:	DIESEL		
Tank Type:	Steel/carbon steel		
Install Date:	/ /		
Tank Internal:	Not reported		
Tank External:	Not reported		
Tank Containment:	Not reported		
Pipe Type:	Not reported		
Pipe Location:	Aboveground		
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Dispenser Method:	Not reported		
Date Tested:	/ /	Next Test Date:	/ /
Date Closed:	/ /	Test Method:	Not reported
Updated:	True	Deleted:	False
Date Inspected:	Not reported	Inspector:	Not reported
Result of Inspection:	Not reported		
Mailing Name:	FAR ROCKWAY NURSING HOME		
Mailing Address:	13-11 VIRGINIA ST FAR ROCKAWAY, NY 11691		
Mailing Contact:	ARON FEUEREISS		
Mailing Telephone:	(718) 327-2909		
Owner Mark:	First Owner	Expiration Date:	08/24/2002
Certification Flag:	False	Certification Date:	07/29/1997



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

833 CENTRAL OWNERS CORP (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U000398468

Certification Flag: False  
Old PBS Number: Not reported  
Inspected Date: Not reported  
Inspection Result: Not reported  
Lat/long: Not reported  
Facility Type: APARTMENT BUILDING  
Town or City: NEW YORK CITY  
Town or City Code: 01  
County Code: 63  
Region: 2  
Certification Date: 07/24/1997  
Expiration Date: 07/07/2002  
Inspector: Not reported

10  
NE  
1/8-1/4  
995 ft.  
Higher

INACTIVE  
21 REDFERN AVE  
INWOOD, NY 11096

UST U003846201  
N/A

NY UST NCFM:  
Tank Type: OUTDOOR UG HOR STEEL  
Tank Contents: EMPTY  
Tank Size: 1000  
Tank Type: OUTDOOR UG HOR STEEL  
Tank Contents: EMPTY  
Tank Size: 550

11  
SSW  
1/8-1/4  
1225 ft.  
Higher

12-13 NEILSON ST  
12-13 NEILSON ST  
FAR ROKAWAY, NY

LTANKS S100560371  
N/A

LTANKS:  
Spill Number: 9303442  
Facility Contact: Not reported  
Investigator: S. CAMMISA  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: Not reported  
Spiller: RELATED MGT CO.  
Spiller Address: Not reported  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party.  
Corrective action taken.  
Spill Closed Dt: 06/16/1993  
Spill Cause: Tank Failure  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Spill Date: 06/15/1993 16:30  
Cleanup Ceased: 06/16/1993  
Last Inspection: Not reported  
Cleanup Meets Standard: True  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 07/19/1993  
Region of Spill: 2  
Facility Tele: Not reported  
SWIS: 63  
Caller Agency: Not reported  
Caller Extension: Not reported  
Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: Not reported  
Resource Affected: On Land  
Spill Source: Private Dwelling  
PBS Number: Not reported  
Reported to Dept: 06/15/1993 08:57

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

12-13 NEILSON ST (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S100560371

Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 06/16/1993  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
PBS Number: Not reported  
Tank Number: Not reported  
Test Method: Not reported  
Capacity of Failed Tank: Not reported  
Leak Rate Failed Tank: Not reported  
Gross Leak Rate: Not reported  
Material:  
Material Class Type: 1  
Quantity Spilled: 0  
Units: Not reported  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464  
DEC Remarks: Not reported  
Spill Cause: SPILL IN BASEMENT - IS CONTAINED - WOULD LIKE CALL BACK. WILL HAVE TANK COMPANY REPAIR SMALL LEAK.

D12  
NE  
1/8-1/4  
1256 ft.  
Higher

FOREST LABORATORIES  
303 PROSPECT ST  
INWOOD, NY 11096

UST 1004632105  
N/A

Site 1 of 2 in cluster D

NY UST NCFM:

Tank Type:	OUTDOOR UG HOR STEEL	Tank Size:	1000
Tank Contents:	EMPTY		
Tank Type:	OUTDOOR UG HOR STEEL	Tank Size:	1000
Tank Contents:	EMPTY		
Tank Type:	OUTDOOR UG HOR STEEL	Tank Size:	2000
Tank Contents:	EMPTY		
Tank Type:	OUTDOOR UG HOR STEEL	Tank Size:	3000
Tank Contents:	EMPTY		

E13  
WNW  
1/8-1/4  
1283 ft.  
Higher

TOWN OF CLAVERACK  
RT 217  
MELLENVILLE, NY 12544

UST U001845359  
AST N/A

Site 1 of 3 in cluster E

PBS UST:

PBS Number:	4-142646	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	1028
Operator:	TOWN OF CLAVERACK (518) 672-4472		
Emergency Contact:	THOMAS MULLINS		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

TOWN OF CLAVERACK (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U001845359

Total Tanks:	(518) 672-4472 2		
Owner:	TOWN OF CLAVERACK RT 217 MELLENVILLE, NY 12544 (518) 672-7911		
Owner Type:	Local Government		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	TOWN OF CLAVERACK RT 217 MELLENVILLE, NY 12544 (518) 672-7911		
Tank Status:	Closed - Removed		
Capacity (gals):	1000		
Tank Location:	UNDERGROUND		
Tank Id:	1	Install Date:	Not reported
Tank Type:	Steel/carbon steel	Product Stored:	LEADED GASOLINE
Tank Internal:	NONE	Pipe Internal:	NONE
Pipe Location:	Underground	Pipe Type:	GALVANIZED STEEL
Tank External:	NONE		
Missing Data for Tank:	No Missing Data		
Pipe External:	NONE		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	11/01/1998	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	2275	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	02/24/2000
Old PBS Number:	Not reported	Expiration Date:	08/18/2003
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	OTHER		
Town or City:	CLAVERACK		
Town or City Code:	28		
County Code:	10		
Region:	4		
PBS Number:	4-142646	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	1028
Operator:	TOWN OF CLAVERACK (518) 672-4472		
Emergency Contact:	THOMAS MULLINS (518) 672-4472		
Total Tanks:	2		
Owner:	TOWN OF CLAVERACK RT 217 MELLENVILLE, NY 12544 (518) 672-7911		
Owner Type:	Local Government		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**TOWN OF CLAVERACK (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**U001845359**

Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	TOWN OF CLAVERACK		
	RT 217		
	MELLENVILLE, NY 12544		
	(518) 672-7911		
Tank Status:	Closed - Removed		
Capacity (gals):	2000		
Tank Location:	UNDERGROUND		
Tank Id:	2	Install Date:	12/01/1982
Tank Type:	Steel/carbon steel	Product Stored:	DIESEL
Tank Internal:	NONE	Pipe Internal:	NONE
Pipe Location:	Underground	Pipe Type:	GALVANIZED STEEL
Tank External:	NONE		
Missing Data for Tank:	No Missing Data		
Pipe External:	NONE		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	08/01/1993	Next Test Date:	Not reported
Date Closed:	11/01/1998	Test Method:	HORNER
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	2275	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	02/24/2000
Old PBS Number:	Not reported	Expiration Date:	08/18/2003
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	OTHER		
Town or City:	CLAVERACK		
Town or City Code:	28		
County Code:	10		
Region:	4		
PBS Number:	4-142646	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	1028
Operator:	TOWN OF CLAVERACK		
	(518) 672-4472		
Emergency Contact:	THOMAS MULLINS		
	(518) 672-4472		
Total Tanks:	2		
Owner:	TOWN OF CLAVERACK		
	RT 217		
	MELLENVILLE, NY 12544		
	(518) 672-7911		
Owner Type:	Local Government		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	TOWN OF CLAVERACK		
	RT 217		
	MELLENVILLE, NY 12544		
	(518) 672-7911		
Tank Status:	Closed - Removed		



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

TOWN OF CLAVERACK (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U001845359

Capacity (gals):	1000	Install Date:	Not reported
Tank Location:	UNDERGROUND	Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Id:	3	Pipe Internal:	NONE
Tank Type:	Steel/carbon steel	Pipe Type:	GALVANIZED STEEL
Tank Internal:	NONE		
Pipe Location:	Underground		
Tank External:	NONE		
Missing Data for Tank:	No Missing Data		
Pipe External:	NONE		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	03/01/1998	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	2275	Renewal Date:	Not reported
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	02/24/2000
Old PBS Number:	Not reported	Expiration Date:	08/18/2003
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	OTHER		
Town or City:	CLAVERACK		
Town or City Code:	28		
County Code:	10		
Region:	4		
PBS AST:			
PBS Number:	4-142646	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS Code:	1028
Federal ID:	Not reported	Previous PBS#:	Not reported
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Facility Type:	OTHER		
Owner Type:	Local Government		
Owner Sub Type:	Not reported		
Owner:	TOWN OF CLAVERACK		
	RT 217		
	MELLENVILLE, NY 12544		
Owner Phone:	(518) 672-7911		
Facility Phone:	(518) 672-4472		
Operator:	TOWN OF CLAVERACK		
Emergency Name:	THOMAS MULLINS		
Emergency Phone:	(518) 672-4472		
Total Tanks:	2		
Total Capacity:	2275		
Tank ID:	1		
Capacity (Gal):	2000		
Missing Data for Tank :	Minor data missing		
Tank Location:	ABOVEGROUND		
Product Stored:	DIESEL		
Tank Type:	Steel/carbon steel		
Install Date:	11/01/1998		
Tank Internal:	OTHER		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

TOWN OF CLAVERACK (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U001845359

Tank External:	OTHER	
Tank Containment:	DOUBLED-WALLED TANK	
Pipe Type:	NONE	
Pipe Location:	None	
Pipe Internal:	Not reported	
Pipe External:	Not reported	
Leak Detection:	IN-TANK SYSTEM	
Overfill Protection:	Vent Whistle	
Dispenser Method:	Suction	
Date Tested:	/ /	Next Test Date: / /
Date Closed:	/ /	Test Method: Not reported
Updated:	True	Deleted: False
Date Inspected:	Not reported	Inspector: Not reported
Result of Inspection:	Not reported	
Mailing Name:	TOWN OF CLAVERACK	
Mailing Address:	RT 217 MELLENVILLE, NY 12544	
Mailing Contact:	Not reported	
Mailing Telephone:	(518) 672-7911	
Owner Mark:	First Owner	Expiration Date: 08/18/2003
Certification Flag:	False	Certification Date: 02/24/2000
Renew Flag:	False	Renew Date: / /
Lat/Long:	Not reported	
Dead Letter:	False	
Facility Screen:	No data missing	
Owner Screen:	No data missing	
Tank Screen:	Minor data missing	
Town or City:	CLAVERACK	
Town or City Code:	28	
County Code:	10	
Region:	4	
Fiscal Amount for Registration Fee is Correct:	True	
PBS Number:	4-142646	CBS Number: Not reported
SPDES Number:	Not reported	SWIS Code: 1028
Federal ID:	Not reported	Previous PBS#: Not reported
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.	
Facility Type:	OTHER	
Owner Type:	Local Government	
Owner Sub Type:	Not reported	
Owner:	TOWN OF CLAVERACK RT 217 MELLENVILLE, NY 12544	
Owner Phone:	(518) 672-7911	
Facility Phone:	(518) 672-4472	
Operator:	TOWN OF CLAVERACK	
Emergency Name:	THOMAS MULLINS	
Emergency Phone:	(518) 672-4472	
Total Tanks:	2	
Total Capacity:	2275	
Tank ID:	2	
Capacity (Gal):	275	
Missing Data for Tank :	Minor data missing	
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE	
Product Stored:	UNLEADED GASOLINE	
Tank Type:	Steel/carbon steel	

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**TOWN OF CLAVERACK (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**U001845359**

Install Date: 11/01/1998  
Tank Internal: NONE  
Tank External: NONE  
Tank Containment: NONE  
Pipe Type: NONE  
Pipe Location: None  
Pipe Internal: Not reported  
Pipe External: Not reported  
Leak Detection: NONE  
Overfill Protection: Vent Whistle  
Dispenser Method: Suction  
Date Tested: / /  
Date Closed: / /  
Updated: True  
Date Inspected: Not reported  
Result of Inspection: Not reported  
Mailing Name: TOWN OF CLAVERACK  
Mailing Address: RT 217  
MELLENVILLE, NY 12544  
Mailing Contact: Not reported  
Mailing Telephone: (518) 672-7911  
Owner Mark: First Owner  
Certification Flag: False  
Renew Flag: False  
Lat/Long: Not reported  
Dead Letter: False  
Facility Screen: No data missing  
Owner Screen: No data missing  
Tank Screen: Minor data missing  
Town or City: CLAVERACK  
Town or City Code: 28  
County Code: 10  
Region: 4  
Fiscal Amount for Registration Fee is Correct: True

Next Test Date: / /  
Test Method: Not reported  
Deleted: False  
Inspector: Not reported

Expiration Date: 08/18/2003  
Certification Date: 02/24/2000  
Renew Date: / /

**D14  
NE  
1/8-1/4  
1295 ft.  
Higher**

**INWOOD LABORATORIES INC  
300 PROSPECT ST  
INWOOD, NY 11096**

**RCRIS-SQG 1000339850  
NYD002035517**

**Site 2 of 2 in cluster D**

RCRIS:  
Owner: INWOOD LABORATORIES INC  
(212) 555-1212  
EPA ID: NYD002035517  
Contact: RICHARD S OVERTON  
(516) 371-1155  
Classification: Small Quantity Generator  
Used Oil Recyc: No  
TSDF Activities: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**INWOOD LABORATORIES INC (Continued)**

**1000339850**

Violation Status: No violations found

**15  
South  
1/4-1/2  
1322 ft.  
Higher**

**12-13 NELSON ST  
12-13 NELSON ST  
QUEENS, NY**

**LTANKS    S100560375  
N/A**

**LTANKS:**

Spill Number:	9303657	Region of Spill:	2
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	CAMMISA	SWIS:	63
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	UNK		
Spiller Address:	Not reported		
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	06/21/1993		
Spill Cause:	Tank Failure	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Private Dwelling
Spill Notifier:	Local Agency	PBS Number:	Not reported
Spill Date:	06/15/1993 17:28	Reported to Dept:	06/21/1993 12:37
Cleanup Ceased:	06/21/1993		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	07/20/1993		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	06/22/1993		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	0		
Units:	Not reported		
Unknown Qty Spilled:	No		
Quantity Recovered:	0		
Unknown Qty Recovered:	False		
Material:	UNKNOWN PETROLEUM		
Class Type:	Petroleum		
Chem Abstract Service Number:	UNKNOWN PETROLEUM		
Last Date:	09/29/1994		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

12-13 NELSON ST (Continued)

EDR ID Number  
EPA ID Number

Database(s)

Num Times Material Entry In File: 16414  
DEC Remarks: Not reported  
Spill Cause: TANK LEAKING IN BASEMENT NYC DEP HAZMAT WAS NOTIFIED 718)595-4670.

S100560375

E16  
WNW  
1/4-1/2  
1329 ft.  
Higher

HUNTER AMBULANCE  
28 SHERIDAN BLVD  
INWOOD, NY

LTANKS S103559053  
N/A

Site 2 of 3 in cluster E

LTANKS:

Spill Number:	9812339	Region of Spill:	1
Facility Contact:	JAMES MARTINO	Facility Tele:	(516) 572-1095
Investigator:	DARCANGELO	SWIS:	28
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
Spiller Contact:	MARK SCHWARTZ	Spiller Phone:	(516) 371-2622
Spiller:	HUNTER AMBULANCE		
Spiller Address:	28 SHERIDAN BLVD INWOOD, NY 11696		

Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Spill Closed Dt:	09/20/2000	Resource Affected:	In Sewer
Spill Cause:	Tank Overfill	Spill Source:	Other Commercial/Industrial
Water Affected:	Not reported	PBS Number:	Not reported
Spill Notifier:	Fire Department	Reported to Dept:	01/06/1999 02:22
Spill Date:	01/06/1999 01:00		
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	09/21/2001		
Is Updated:	False		

Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 01/06/1999  
Date Region Sent Summary to Central Office: Not reported

Tank Test:

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

Material:

Material Class Type:	1
Quantity Spilled:	20
Units:	Gallons
Unknown Qty Spilled:	20
Quantity Recovered:	0
Unknown Qty Recovered:	False
Material:	DIESEL
Class Type:	Petroleum
Chem Abstract Service Number:	DIESEL

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**HUNTER AMBULANCE (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S103559053**

Last Date: 07/28/1994  
Num Times Material Entry In File: 10625  
Spill Cause: A DRIVER FOR THE AMBULANCE SERVICE LEFT THE NOZZLE IN THE TANK AND WALKED AWAY FROM THE PUMPS A FEW MINUTES. DRIVER CAME BACK AND THE NOZZLE NEVER SHUT OFF SPILLING FUEL TO THE GROUND. UNABLE TO REACH A CONTRACTOR FOR CLEAN UP.

The LTANKS database contains additional information for this site.  
Please contact your EDR Account Executive for more information.

**F17  
West  
1/4-1/2  
1335 ft.  
Higher**

**WECHTER PETROLEUM CORP  
1 SHERIDAN BLVD  
INWOOD, NY 11096**

**RCRIS-SQG  
FINDS  
LTANKS  
NY Spills**

**1000244231  
NYD075777995**

**Site 1 of 2 in cluster F**

**RCRIS:**

Owner: WECHTER PETROLEUM CORP  
(212) 555-1212  
EPA ID: NYD075777995  
Contact: FRANK L FERRARO  
(718) 327-8855

Classification: Small Quantity Generator  
Used Oil Recyc: No  
TSD Activities: Not reported

Violation Status: No violations found

**FINDS:**

Other Pertinent Environmental Activity Identified at Site:  
AIRS Facility System (AIRS/AFS)  
Resource Conservation and Recovery Act Information system (RCRAINFO)

**SPILLS:**

Spill Number:	8602121	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	O'BRIEN FD	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	(239) 880-
Spiller:	WECHTER PETROLEUM		
Spiller Address:	Not reported		
Spill Class:	Not reported		
Spill Closed Dt:	07/07/1986		
Spill Cause:	Human Error	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Major Facility 400,000 gallons
Spill Notifier:	Fire Department	PBS Number:	Not reported
Spill Date:	06/28/1986 07:30	Reported to Dept:	06/28/1986 09:50
Cleanup Ceased:	07/07/1986		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**WECHTER PETROLEUM CORP (Continued)**

**1000244231**

Spill Record Last Update: 02/17/1999  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 07/15/1986  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
  PBS Number: Not reported  
  Tank Number: Not reported  
  Test Method: Not reported  
  Capacity of Failed Tank: Not reported  
  Leak Rate Failed Tank: Not reported  
  Gross Leak Rate: Not reported  
Material:  
  Material Class Type: 1  
  Quantity Spilled: 100  
  Units: Gallons  
  Unknown Qty Spilled: 100  
  Quantity Recovered: 0  
  Unknown Qty Recovered: False  
  Material: GASOLINE  
  Class Type: Petroleum  
  Chem Abstract Service Number: GASOLINE  
  Last Date: 09/29/1994  
  Num Times Material Entry In File: 21329  
Remarks: Not reported  
DEC Remarks: / / : NCHD/NCFM INVEST.

**LTANKS:**

Spill Number: 8201877	Region of Spill: 1
Facility Contact: Not reported	Facility Tele: Not reported
Investigator: ACAMPORA WELL MOSF	SWIS: 28
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
Spiller Contact: Not reported	Spiller Phone: Not reported
Spiller: WECHTER	
Spiller Address: Not reported	
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)	
Spill Closed Dt: Not reported	Resource Affected: Groundwater
Spill Cause: Tank Failure	Spill Source: Major Facility 400,000 gallons
Water Affected: Not reported	PBS Number: Not reported
Spill Notifier: Other	Reported to Dept: Not reported
Spill Date: 07/08/1983 12:00	
Cleanup Ceased: Not reported	
Last Inspection: Not reported	
Cleanup Meets Standard: False	
Recommended Penalty: Penalty Not Recommended	
Spiller Cleanup Date: Not reported	
Enforcement Date: Not reported	
Investigation Complete: Not reported	
UST Involvement: False	
Spill Record Last Update: 03/04/1998	
Is Updated: False	
Corrective Action Plan Submitted: Not reported	
Date Spill Entered In Computer Data File: 06/17/1986	
Date Region Sent Summary to Central Office: 02/04/1985	

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

WECHTER PETROLEUM CORP (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000244231

Tank Test:

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

Material:

Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464

DEC Remarks: / / : RECOVERY CONTINUING. / / : RECOVERY CONTINUING. 132 SITE WE  
LLS INSTALLED. 489.25 GALS RECOVERED.

Spill Cause: Not reported

F18  
West  
1/4-1/2  
1335 ft.  
Higher

EAGLE OIL  
1 SHERIDAN BLVD  
INWOOD, NY

LTANKS  
NY Spills

S102236033  
N/A

Site 2 of 2 in cluster F

SPILLS:

Spill Number: 9414039  
Facility Contact: Not reported  
Investigator: ACAMPORA  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: Not reported  
Spiller: EAGLE OIL TERMINAL  
Spiller Address: 1 SHERIDAN BLVD  
INWOOD, NY

Region of Spill: 1  
Facility Tele: Not reported  
SWIS: 28  
Caller Agency: Not reported  
Caller Extension: Not reported  
Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: (516) 239-8800

Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 10/02/2000

Spill Cause: Housekeeping

Water Affected: MOTT BASIN

Spill Notifier: DEC

Spill Date: 01/20/1995 11:48

Cleanup Ceased: 01/20/1995

Last Inspection: 19950120

Cleanup Meets Standard: True

Recommended Penalty: Penalty Recommended

Spiller Cleanup Date: Not reported

Enforcement Date: Not reported

Investigation Complete: Not reported

UST Involvement: False

Spill Record Last Update: 10/03/2000

Is Updated: False

Corrective Action Plan Submitted: Not reported

Resource Affected: Surface Water

Spill Source: Major Facility 400,000 gallons

PBS Number: Not reported

Reported to Dept: 01/20/1995 11:48



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**EAGLE OIL (Continued)**

**S102236033**

Date Spill Entered In Computer Data File: 01/23/1995

Date Region Sent Summary to Central Office: 06/01/1999

**Tank Test:**

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

**Material:**

Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: UNKNOWN PETROLEUM  
Class Type: Petroleum  
Chem Abstract Service Number: UNKNOWN PETROLEUM  
Last Date: 09/29/1994  
Num Times Material Entry In File: 16414

**Remark:** DEC FOUND OILY WATER BEING DISCHARGED FROM THE OUTFALL OF THE O/W SEPARATOR DURING SITE INSPECTION, NOTIFIED USCG OF OBSERVATION ON 1/23/95

**DEC Remarks:** 03-01-95 LEUNG WROTE MEMO TO ANDY YERMAN OF THE SPDES GROUP AND INFORMED HIM OF FINDINGS. 02-21-95 RECEIVED LAB RESULTS FROM PEDNEAU LT ASSOCIATES, INC.: GASOLINE AND DIESEL FUEL PRODUCTS ARE IDENTIFIED IN THE SAMPLES. 01-24-95 LEUNG FAXED FIELD NOTES TO PETTY OFFICER STEVE DOOLEY OF THE USCG PER HIS REQUEST. 01-23-95 LEUNG NOTIFIED USCG OF FINDINGS, PETTY OFFICER JERRY MOTYKIN TOOK THE REPORT. 01-20-95 LEUNG AND W. PARISH ARRIVED ON SITE TO PERFORM SPOT INSPECTION. SOME AREAS OF THE TERMINAL ARE FLOODED BECAUSE OF HEAVY RAIN. OBSERVED SHEEN ON THE BAY AND SHEEN ON THE LAST CHAMBER OF THE OIL/WATER SEPARATOR. EFFLUENT WASTEWATER CONTAINED SHEEN AS IT IS BEING DISCHARGED. DEC TOOK SAMPLES OF THE DISCHARGE. PICTURES TAKEN OF THE SURFACE WATER NEAR THE OUTFALL. OIL PUDDLES ALSO OBSERVED AS THE OIL/WATER SEPARATOR IS BACKED UP TO THE ON-SITE DRAINS. DEC NOTIFIED TERMINAL PERSONNEL TO STOP DISCHARGE. SERGIO (TERMINAL WORKER) SHUT SYSTEM OFF. MIKE CRAWFORD (TERMINAL SUPERVISOR) CALLED FOR CONTRACTOR TO PUMP O/W SEPARATOR AT 12:25. AT 13:30 PREMIUM TRANSPORTATION ARRIVED TO PUMP OUT THE SEPARATOR AND TRANSFER THE CONTENT TO ON-SITE TANK TRUCKS. AT 13:54 DEC OBSERVED STORM WATER DISCHARGE COMING FROM THE TANK FARM AREA AND WATER CONTAINED PETROLEUM SHEEN. DEC TOLD EAGLE OIL PERSONNEL TO STOP DISCHARGE. SERGIO (ANOTHER WORKER AT THE TERMINAL) STOPPED THE DISCHARGE BY BOLTING DOWN THE DRAIN PIPE. PERSONNEL CONTINUED TO CLEAN O/W SEPARATOR AND BAY TANKS WITH ABSORBENT PADS. DEC ISSUED CLEANUP LETTER TO EAGLE OIL. DEC DEPARTED SITE AT 14:10 TO DROP SAMPLES OFF AT THE LAB.

**LTANKS:**

Spill Number:	8909117	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	MAYTROT	SWIS:	28
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

Database(s)

**EAGLE OIL (Continued)**

**S102236033**

Notifier Phone: Not reported  
Spiller Contact: Not reported  
Spiller: EAGLE OIL  
Spiller Address: Not reported  
Spill Class: Not reported  
Spill Closed Dt: 10/18/1990  
Spill Cause: Tank Overfill  
Water Affected: Not reported  
Spill Notifier: Fire Department  
Spill Date: 12/16/1989 15:35  
Cleanup Ceased: 10/18/1990  
Last Inspection: Not reported  
Cleanup Meets Standard: True  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 10/23/1990  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 12/19/1989  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
PBS Number: Not reported  
Tank Number: Not reported  
Test Method: Not reported  
Capacity of Failed Tank: Not reported  
Leak Rate Failed Tank: Not reported  
Gross Leak Rate: Not reported  
Material:  
Material Class Type: 1  
Quantity Spilled: 40  
Units: Gallons  
Unknown Qty Spilled: 40  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464  
DEC Remarks: Not reported  
Spill Cause: SPILL OCCURRED AT LOADING RACK, SPILLAGE ON GROUND INTO DRAINS, LEADING TO OIL/WATER SEPARATOR. INWOOD FD, NCFM ON SCENE, SPEEDY DRY APPLIED. NO EMERGENCY RESPONSE FROM DEC NEEDED

**E19**  
**West**  
**1/4-1/2**  
**1350 ft.**  
**Higher**

**OIL CO., INC.**  
**ONE SHERIDAN BLVD.**  
**INWOOD, NY 11696**  
**Site 3 of 3 in cluster E**

**MOSF UST 1001756989**  
**MOSF AST N/A**

**MOSF UST:**

Facility ID: 1-1660  
SWIS Code: 28  
Tank Status: In Service  
Operator: WILLIAM NAPPO  
Owner: LISBON VENTURES

Facility Status: INACTIVE FACILITY  
Facility Town: NEW YORK CITY  
Federal Id No: Not reported  
Contact Phone: (516) 239-8800

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Owner Tel:	ONE SHERIDAN BLVD. INWOOD, NY 11696 (516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	15
Tank Location:	Underground		
Install Date:	01/33	Capacity (Gal):	139944
Product:	Unleaded Gasoline	Tank Internal:	Epoxy Liner
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Painted/Asphalt Coating		
Second Contain:	Concrete Dike		
Leak Detection:	Groundwater Well		
Overfill Protection:	Product Level Gauge		
Test Date:	07/80	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	18
Tank Location:	Underground		
Install Date:	01/33	Capacity (Gal):	192596
Product:	Unleaded Gasoline	Tank Internal:	Epoxy Liner
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Painted/Asphalt Coating		
Second Contain:	Concrete Dike		
Leak Detection:	Groundwater Well		
Overfill Protection:	Product Level Gauge		
Test Date:	06/79	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	19
Tank Location:	Underground		
Install Date:	01/33	Capacity (Gal):	190699
Product:	Unleaded Gasoline	Tank Internal:	Epoxy Liner
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Painted/Asphalt Coating		
Second Contain:	Concrete Dike		
Leak Detection:	Groundwater Well		
Overfill Protection:	Product Level Gauge		
Test Date:	06/79	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	20
Tank Location:	Underground		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Install Date:	01/33	Capacity (Gal):	190735
Product:	Unleaded Gasoline	Tank Internal:	Epoxy Liner
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Painted/Asphalt Coating		
Second Contain:	Concrete Dike		
Leak Detection:	Groundwater Well		
Overfill Protection:	Product Level Gauge		
Test Date:	06/79	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	21
Tank Location:	Underground		
Install Date:	01/33	Capacity (Gal):	139926
Product:	Unleaded Gasoline	Tank Internal:	Epoxy Liner
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Painted/Asphalt Coating		
Second Contain:	Concrete Dike		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Leak Detection:	Groundwater Well		
Overfill Protection:	Product Level Gauge		
Test Date:	01/80	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	22
Tank Location:	Underground		
Install Date:	01/33	Capacity (Gal):	97205
Product:	Nos. 1, 2, or 4 Fuel Oil	Tank Internal:	Epoxy Liner
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Painted/Asphalt Coating		
Second Contain:	Concrete Dike		
Leak Detection:	Groundwater Well		
Overfill Protection:	Product Level Gauge		
Test Date:	06/83	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete	License Stat:	Did Not Apply
Avg Throughput:	250000	Expiration Date:	/ /
License Issued:	/ /		
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge	Tank ID:	23
Applic Rcvd:	01/07/1992		
Tank Location:	Underground	Capacity (Gal):	62155
Install Date:	01/33	Tank Internal:	Epoxy Liner
Product:	Nos. 1, 2, or 4 Fuel Oil		
Tank Type:	Steel/carbon steel		
Tank External:	None	Pipe Type:	STEEL/IRON
Pipe Location:	Aboveground/Underground Combination	Dispenser:	Suction
Pipe Internal:	None		
Pipe External:	Painted/Asphalt Coating		
Second Contain:	Concrete Dike		
Leak Detection:	Groundwater Well		
Overfill Protection:	Product Level Gauge		
Test Date:	06/84	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696	Owner Type:	UNDEFINED
Owner Tel:	(516) 239-8800		
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	26
Tank Location:	Underground		
Install Date:	06/76	Capacity (Gal):	1500
Product:	Nos. 1, 2, or 4 Fuel Oil	Tank Internal:	None
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	Underground	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Painted/Asphalt Coating		
Second Contain:	None		
Leak Detection:	Groundwater Well		
Overfill Protection:	Product Level Gauge		
Test Date:	06/76	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Owner Status:	(516) 239-8800 1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Minor Errors		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applc Rcvd:	01/07/1992	Tank ID:	28
Tank Location:	Underground		
Install Date:	00/00	Capacity (Gal):	500
Product:	Other	Tank Internal:	Not reported
Tank Type:	Steel/carbon steel		
Tank External:	Not reported		
Pipe Location:	Not reported	Pipe Type:	Not reported
Pipe Internal:	Not reported	Dispenser:	Not reported
Pipe External:	Not reported		
Second Contain:	Not reported		
Leak Detection:	None		
Overfill Protection:	None		
Test Date:	07/80	Date Closed:	UNKWN
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	29
Tank Location:	Underground		
Install Date:	01/77	Capacity (Gal):	4000
Product:	Other	Tank Internal:	None
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	None		
Second Contain:	Concrete Dike		
Leak Detection:	Groundwater Well		
Overfill Protection:	None		
Test Date:	01/77	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1660	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	NEW YORK CITY
Tank Status:	In Service	Federal Id No	Not reported
Operator:	WILLIAM NAPPO	Contact Phone:	(516) 239-8800
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800	Owner Type:	UNDEFINED
Mail To:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696 ATTN: BILL NAPPO (516) 239-8800		
Owner Status:	1	COI Date:	/ /
Legal Agent:	MARVIN KRAMMER 305 AVENUE U BROOKLYN, NY 11223		
Date Filed:	08/87	CBS Number:	-
Emerg Contact:	WILLIAM NAPPO, (718) 858-6038		
SPDES Num:	0-23299		
Total Tanks:	15	Total Capacity:	1631666
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	250000	License Stat:	Did Not Apply
License Issued:	/ /	Expiration Date:	/ /
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/07/1992	Tank ID:	30

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

Tank Location:	Underground	Capacity (Gal):	1000
Install Date:	01/77	Tank Internal:	None
Product:	Other		
Tank Type:	Steel/carbon steel		
Tank External:	None		
Pipe Location:	None	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	None		
Second Contain:	None		
Leak Detection:	None		
Overfill Protection:	None		
Test Date:	01/77	Date Closed:	Not reported
Lat/Long:	40 37 25 / 73 44 50		
Inspected Date:	02/02/1994		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	WILLIAM NAPPO
Prod Xfer Options:	C	Operator Name:	WILLIAM NAPPO
Inspector Status:	Not reported	License Issued:	/ /
Vessel Id:	Not reported	Renew Date:	11/07/1997
Pipe Flag:	True	Renew Flag:	True
MOSF AST:			
MOSF Number:	1-1660	Telephone:	(516) 239-8800
Federal ID:	Not reported		
Facility Type:	Storage Terminal		
Facility Status:	INACTIVE FACILITY		
Tank Status:	In Service		
Owner:	LISBON VENTURES ONE SHERIDAN BLVD. INWOOD, NY 11696		
Owner Tel:	(516) 239-8800		
Owner Type:	Corporate/Commercial		
Tank Status:	In Service	Tank ID:	10
Total Tanks:	15	Daily Throughput	250000 Gal(s)
Tank Location:	Aboveground		
Install Date:	09/28	Total Capacity:	1631666
Tank Type:	Steel/carbon steel		
Tank External:	Painted/Asphalt Coating		
Tank Internal:	None		
Product:	Unleaded Gasoline	Capacity (gal):	18674
Status of Data:	Complete		
Pipe Location:	Underground	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Painted/Asphalt Coating		
Second Contain:	Concrete Dike		
Leak Detection:	Other		
Overfill Protection:	None		
Test Date:	07/81	Date Closed:	Not reported
Dispensing Mthd:	Suction		
SWIS Code:	28	Facility Town:	NEW YORK CITY
Mailing Name:	EAGLE OIL COMPANY ONE SHERIDAN BLVD. INWOOD, NY 11696		
Mailing Contact:	BILL NAPPO		
Mailing Phone:	(516) 239-8800		
Pipe Flag:	True		
Reserve Flag:	True		
Legal Agent:	MARVIN KRAMMER		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OIL CO., INC. (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1001756989

305 AVENUE U  
BROOKLYN, NY 11223

Date Legal Agent Filed with Secretary of State: 08/87  
Name of Emergency Contact: WILLIAM NAPPO  
Emergency Contact Telephone: (718) 858-6038  
Chemical Bulk Storage Number: -  
Pollution Discharge Elimination System Num: 0-23299  
License Status: Did not apply  
Date License Application Received: 01/07/1992  
Date License Issued: Not reported  
Product Transfer Operation: Vessel/Barge (Including off-shore platform)  
Operator Name: WILLIAM NAPPO  
Lat/Long: 40|37|25 / 73|44|50  
Vessel ID: Not reported  
Inspected State: Not reported  
Inspected Date: 02/02/1994  
Owner Status: 1  
Owner Mark: 1  
LIC Expires: / /  
Renew Date: 11/07/1997  
Inspector Initials: Not reported  
COI Date: / /

MOSF Number: 1-1660 Telephone: (516) 239-8800  
Federal ID: Not reported  
Facility Type: Storage Terminal  
Facility Status: INACTIVE FACILITY  
Tank Status: In Service  
Owner: LISBON VENTURES  
ONE SHERIDAN BLVD.  
INWOOD, NY 11696

Owner Tel: (516) 239-8800  
Owner Type: Corporate/Commercial  
Tank Status: In Service Tank ID: 11  
Total Tanks: 15 Daily Throughput 250000 Gal(s)  
Tank Location: Aboveground Total Capacity: 1631666  
Install Date: 09/28  
Tank Type: Steel/carbon steel Capacity (gal): 18674  
Tank External: Painted/Asphalt Coating  
Tank Internal: None  
Product: Unleaded Gasoline  
Status of Data: Complete  
Pipe Location: Underground Pipe Type: STEEL/IRON  
Pipe Internal: None Dispenser: Suction  
Pipe External: Painted/Asphalt Coating  
Second Contain: Concrete Dike  
Leak Detection: Other  
Overfill Protection: Product Level Gauge  
Test Date: 07/81 Date Closed: Not reported  
Dispensing Mthd: Suction  
SWIS Code: 28 Facility Town: NEW YORK CITY  
Mailing Name: EAGLE OIL COMPANY  
ONE SHERIDAN BLVD.  
INWOOD, NY 11696  
Mailing Contact: BILL NAPPO  
Mailing Phone: (516) 239-8800  
Pipe Flag: True

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**OIL CO., INC. (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**1001756989**

Reserve Flag: True  
Legal Agent: MARVIN KRAMMER  
305 AVENUE U  
BROOKLYN, NY 11223  
Date Legal Agent Filed with Secretary of State: 08/87  
Name of Emergency Contact: WILLIAM NAPPO  
Emergency Contact Telephone: (718) 858-6038  
Chemical Bulk Storage Number: -  
Pollution Discharge Elimination System Num: 0-23299  
License Status: Did not apply  
Date License Application Received: 01/07/1992  
Date License Issued: Not reported  
Product Transfer Operation: Vessel/Barge (Including off-shore platform)  
Operator Name: WILLIAM NAPPO  
Lat/Long: 40|37|25 / 73|44|50  
Vessel ID: Not reported  
Inspected State: Not reported  
Inspected Date: 02/02/1994  
Owner Status: 1  
Owner Mark: 1  
LIC Expires: / /  
Renew Date: 11/07/1997  
Inspector Initials: Not reported  
COI Date: / /  
  
MOSF Number: 1-1660 Telephone: (516) 239-8800  
Federal ID: Not reported  
Facility Type: Storage Terminal  
Facility Status: INACTIVE FACILITY  
Tank Status: In Service  
Owner: LISBON VENTURES  
ONE SHERIDAN BLVD.  
INWOOD, NY 11696  
Owner Tel: (516) 239-8800  
Owner Type: Corporate/Commercial  
Tank Status: In Service Tank ID: 12  
Total Tanks: 15 Daily Throughput 250000 Gal(s)  
Tank Location: Aboveground  
Install Date: 04/77 Total Capacity: 1631666  
Tank Type: Steel/carbon steel  
Tank External: Painted/Asphalt Coating  
Tank Internal: None  
Product: Unleaded Gasoline Capacity (gal): 217973  
Status of Data: Complete  
Pipe Location: Underground Pipe Type: STEEL/IRON  
Pipe Internal: None Dispenser: Suction  
Pipe External: Painted/Asphalt Coating  
Second Contain: Concrete Dike  
Leak Detection: Other  
Overfill Protection: Product Level Gauge  
Test Date: 10/79 Date Closed: Not reported  
Dispensing Mthd: Suction  
SWIS Code: 28 Facility Town: NEW YORK CITY  
Mailing Name: EAGLE OIL COMPANY  
ONE SHERIDAN BLVD.  
INWOOD, NY 11696  
Mailing Contact: BILL NAPPO

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**OIL CO., INC. (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**1001756989**

Mailing Phone: (516) 239-8800  
Pipe Flag: True  
Reserve Flag: True  
Legal Agent: MARVIN KRAMMER  
305 AVENUE U  
BROOKLYN, NY 11223  
Date Legal Agent Filed with Secretary of State: 08/87  
Name of Emergency Contact: WILLIAM NAPPO  
Emergency Contact Telephone: (718) 858-6038  
Chemical Bulk Storage Number: -  
Pollution Discharge Elimination System Num: 0-23299  
License Status: Did not apply  
Date License Application Received: 01/07/1992  
Date License Issued: Not reported  
Product Transfer Operation: Vessel/Barge (Including off-shore platform)  
Operator Name: WILLIAM NAPPO  
Lat/Long: 40|37|25 / 73|44|50  
Vessel ID: Not reported  
Inspected State: Not reported  
Inspected Date: 02/02/1994  
Owner Status: 1  
Owner Mark: 1  
LIC Expires: / /  
Renew Date: 11/07/1997  
Inspector Initials: Not reported  
COI Date: / /

MOSF Number: 1-1660 Telephone: (516) 239-8800  
Federal ID: Not reported  
Facility Type: Storage Terminal  
Facility Status: INACTIVE FACILITY  
Tank Status: In Service  
Owner: LISBON VENTURES  
ONE SHERIDAN BLVD.  
INWOOD, NY 11696  
Owner Tel: (516) 239-8800  
Owner Type: Corporate/Commercial  
Tank Status: In Service Tank ID: 13  
Total Tanks: 15 Daily Throughput 250000 Gal(s)  
Tank Location: Aboveground  
Install Date: 09/27 Total Capacity: 1631666  
Tank Type: Steel/carbon steel  
Tank External: Painted/Asphalt Coating  
Tank Internal: Fiberglass Liner (FRP)  
Product: Unleaded Gasoline Capacity (gal): 190617  
Status of Data: Complete  
Pipe Location: Underground Pipe Type: STEEL/IRON  
Pipe Internal: None Dispenser: Suction  
Pipe External: Painted/Asphalt Coating  
Second Contain: Concrete Dike  
Leak Detection: Other  
Overfill Protection: Product Level Gauge  
Test Date: 11/86 Date Closed: Not reported  
Dispensing Mthd: Suction  
SWIS Code: 28 Facility Town: NEW YORK CITY  
Mailing Name: EAGLE OIL COMPANY  
ONE SHERIDAN BLVD.

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**OIL CO., INC. (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**1001756989**

INWOOD, NY 11696  
Mailing Contact: BILL NAPPO  
Mailing Phone: (516) 239-8800  
Pipe Flag: True  
Reserve Flag: True  
Legal Agent: MARVIN KRAMMER  
305 AVENUE U  
BROOKLYN, NY 11223  
Date Legal Agent Filed with Secretary of State: 08/87  
Name of Emergency Contact: WILLIAM NAPPO  
Emergency Contact Telephone: (718) 858-6038  
Chemical Bulk Storage Number: -  
Pollution Discharge Elimination System Num: 0-23299  
License Status: Did not apply  
Date License Application Received: 01/07/1992  
Date License Issued: Not reported  
Product Transfer Operation: Vessel/Barge (Including off-shore platform)  
Operator Name: WILLIAM NAPPO  
Lat/Long: 40|37|25 / 73|44|50  
Vessel ID: Not reported  
Inspected State: Not reported  
Inspected Date: 02/02/1994  
Owner Status: 1  
Owner Mark: 1  
LIC Expires: / /  
Renew Date: 11/07/1997  
Inspector Initials: Not reported  
COI Date: / /  
MOSF Number: 1-1660 Telephone: (516) 239-8800  
Federal ID: Not reported  
Facility Type: Storage Terminal  
Facility Status: INACTIVE FACILITY  
Tank Status: In Service  
Owner: LISBON VENTURES  
ONE SHERIDAN BLVD.  
INWOOD, NY 11696  
Owner Tel: (516) 239-8800  
Owner Type: Corporate/Commercial  
Tank Status: In Service Tank ID: 14  
Total Tanks: 15 Daily Throughput 250000 Gal(s)  
Tank Location: Aboveground Total Capacity: 1631666  
Install Date: 09/79  
Tank Type: Steel/carbon steel  
Tank External: Painted/Asphalt Coating  
Tank Internal: None  
Product: Unleaded Gasoline Capacity (gal): 165968  
Status of Data: Complete  
Pipe Location: Underground Pipe Type: STEEL/IRON  
Pipe Internal: None Dispenser: Suction  
Pipe External: Painted/Asphalt Coating  
Second Contain: Concrete Dike  
Leak Detection: Other  
Overfill Protection: Product Level Gauge  
Test Date: 11/79 Date Closed: Not reported  
Dispensing Mthd: Suction Facility Town: NEW YORK CITY  
SWIS Code: 28



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**OIL CO., INC. (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**1001756989**

Mailing Name: EAGLE OIL COMPANY  
ONE SHERIDAN BLVD.  
INWOOD, NY 11696  
Mailing Contact: BILL NAPPO  
Mailing Phone: (516) 239-8800  
Pipe Flag: True  
Reserve Flag: True  
Legal Agent: MARVIN KRAMMER  
305 AVENUE U  
BROOKLYN, NY 11223  
Date Legal Agent Filed with Secretary of State: 08/87  
Name of Emergency Contact: WILLIAM NAPPO  
Emergency Contact Telephone: (718) 858-6038  
Chemical Bulk Storage Number: -  
Pollution Discharge Elimination System Num: 0-23299  
License Status: Did not apply  
Date License Application Received: 01/07/1992  
Date License Issued: Not reported  
Product Transfer Operation: Vessel/Barge (Including off-shore platform)  
Operator Name: WILLIAM NAPPO  
Lat/Long: 40|37|25 / 73|44|50  
Vessel ID: Not reported  
Inspected State: Not reported  
Inspected Date: 02/02/1994  
Owner Status: 1  
Owner Mark: 1  
LIC Expires: / /  
Renew Date: 11/07/1997  
Inspector Initials: Not reported  
COI Date: / /

**20  
NE  
1/4-1/2  
1363 ft.  
Higher**

**ST MARYS MANOR  
60 DOUGHTY BLVD  
INWOOD, NY**

**LTANKS S103349788  
NY Spills N/A**

**SPILLS:**

Spill Number:	9606535	Region of Spill:	1
Facility Contact:	GEORGE FRITCH	Facility Tele:	(516) 239-4275
Investigator:	UNASSIGNED	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	(516) 486-1000
Spiller:	STATAN MANAGEMENT		
Spiller Address:	Not reported		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	11/19/1997		
Spill Cause:	Equipment Failure	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Other Non Commercial/Industrial
Spill Notifier:	Other	PBS Number:	Not reported
Spill Date:	08/21/1996 13:00	Reported to Dept:	08/21/1996 13:29
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

ST MARYS MANOR (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S103349788

Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 11/21/1997  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 08/21/1996  
Date Region Sent Summary to Central Office: Not reported

Tank Test:

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

Material:

Material Class Type: 1  
Quantity Spilled: 10  
Units: Gallons  
Unknown Qty Spilled: 10  
Quantity Recovered: 10  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464

Remark: LEAK FROM A TANK SEAL. ONTO CONCRETE BASEMENT FLOOR. LEAK REPAIRED. BEING CLEANED UP.

DEC Remarks: 16:09 - no answer at spill location 16:14 - t/c David Keuning leak from day tank reservoir not the actual tank) no soil no drains problem repaired. NO OTHER ACTION, SEE 97-09402

LTANKS:

Spill Number:	9709402	Region of Spill:	1
Facility Contact:	KERRIE MANN	Facility Tele:	(516) 486-1000
Investigator:	T/T/F	SWIS:	28
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
Spiller Contact:	KERRIE MANN	Spiller Phone:	(516) 486-1000
Spiller:	ST MARYS MANOR		
Spiller Address:	60 DOUGHTY BLVD INWOOD		

Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

Spill Closed Dt:	02/11/1998	Resource Affected:	Groundwater
Spill Cause:	Tank Test Failure	Spill Source:	Other Non Commercial/Industrial
Water Affected:	Not reported	PBS Number:	Not reported
Spill Notifier:	Tank Tester	Reported to Dept:	11/12/1997 20:19
Spill Date:	11/12/1997 18:00		
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation     Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**ST MARYS MANOR (Continued)**

**S103349788**

Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 02/26/1998  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 11/12/1997  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
  PBS Number: Not reported  
  Tank Number: 1  
  Test Method: Horner EZ Check  
  Capacity of Failed Tank: 10000  
  Leak Rate Failed Tank: -0.01  
  Gross Leak Rate: Not reported  
Material:  
  Material Class Type: 1  
  Quantity Spilled: 0  
  Units: Gallons  
  Unknown Qty Spilled: No  
  Quantity Recovered: 0  
  Unknown Qty Recovered: False  
  Material: #2 FUEL OIL  
  Class Type: Petroleum  
  Chem Abstract Service Number: #2 FUEL OIL  
  Last Date: 12/07/1994  
  Num Times Material Entry In File: 24464  
DEC Remarks: SEE 96-06535 CLOSED  
Spill Cause: tank failed test-will decide tommorrow on the fate of tank. leak rate i  
              s negative 0.0145. county tank 31086

21  
West  
1/4-1/2  
1384 ft.  
Higher

**REDFERN HOUSING**  
**1468 BEACH CHANNEL DR**  
**QUEENS, NY**

**LTANKS S102233234**  
**N/A**

**LTANKS:**

Spill Number: 9510331	Region of Spill: 2
Facility Contact: CALLER	Facility Tele: Not reported
Investigator: SACCACIO	SWIS: 63
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
Spiller Contact: ED MALONE	Spiller Phone: (203) 306-8480
Spiller: NYC HOUSING	
Spiller Address: 250 BROADWAY NEW YORK, NY 10007	
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)	
Spill Closed Dt: Not reported	
Spill Cause: Tank Failure	Resource Affected: On Land
Water Affected: Not reported	Spill Source: Other Non Commercial/Industrial
Spill Notifier: Responsible Party	PBS Number: Not reported
Spill Date: 11/16/1995 13:00	Reported to Dept: 11/17/1995 08:42
Cleanup Ceased: Not reported	
Last Inspection: Not reported	
Cleanup Meets Standard: False	

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

REDFERN HOUSING (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S102233234

Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 11/30/1995  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 11/17/1995  
Date Region Sent Summary to Central Office: Not reported

Tank Test:

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

Material:

Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: #4 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #4 FUEL OIL  
Last Date: 12/05/1994  
Num Times Material Entry In File: 1751

DEC Remarks: TRC Environmental was installing a groundwater monitoring well to allow NYCHA to test the tanks with Horner EZY 3. During drilling operations they found oil.

Spill Cause: TRC WAS TANK TESTING FOR GROUND WATER MONITORING WELLS AND NOTICED OIL

G22  
SW  
1/4-1/2  
1441 ft.  
Higher

ETWARU RESIDENCE  
2122 NAMEOKE AVE  
FAR ROCKAWAY, NY

LTANKS S102673185  
N/A

Site 1 of 2 in cluster G

LTANKS:

Spill Number: 9512756  
Facility Contact: MR ETWARU  
Investigator: TIBBE  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: FRANK O'DONNELL  
Spiller: BAERENKLU OIL CO  
Spiller Address: 740 JAMACA AVE  
BROOKLYN NY, NY 11208

Region of Spill: 2  
Facility Tele: (718) 337-3740  
SWIS: 63  
Caller Agency: Not reported  
Caller Extension: Not reported  
Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: (718) 647-4200

Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 01/16/1996  
Spill Cause: Tank Overfill  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Spill Date: 01/13/1996 11:30  
Resource Affected: On Land  
Spill Source: Private Dwelling  
PBS Number: Not reported  
Reported to Dept: 01/13/1996 14:58

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**ETWARU RESIDENCE (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S102673185**

Cleanup Ceased: Not reported  
Last Inspection: Not reported  
Cleanup Meets Standard: False  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 01/27/1998  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 01/13/1996  
Date Region Sent Summary to Central Office: Not reported

**Tank Test:**

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

**Material:**

Material Class Type: 1  
Quantity Spilled: 2  
Units: Gallons  
Unknown Qty Spilled: 2  
Quantity Recovered: 2  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464

DEC Remarks: CLEANED BY RP.

Spill Cause: cust ordered from caller then also ordered from another company

**G23  
SW  
1/4-1/2  
1457 ft.  
Higher**

**COLETTA RECYCLING CORP.  
1629 REDFERN AVE.  
FAR ROCKAWAY, NY 11691**

**SWTIRE S104076113  
N/A**

**Site 2 of 2 in cluster G**

**NY TIRE:**

Accepting Tires: Yes  
Dec Region: 2  
Flag: REGISTERED

**H24  
NW  
1/4-1/2  
1478 ft.  
Higher**

**POWERTEST  
95 SHERIDAN BLVD  
INWOOD, NY**

**LTANKS S100172464  
N/A**

**Site 1 of 3 in cluster H**

**LTANKS:**

Spill Number:	8604965	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	YAGER WELL	SWIS:	28
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

POWERTEST (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S100172464

Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: Not reported  
Spiller: POWERTEST  
Spiller Address: Not reported  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Spill Closed Dt: Not reported  
Spill Cause: Tank Failure  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Spill Date: 11/03/1986 10:30  
Cleanup Ceased: Not reported  
Last Inspection: Not reported  
Cleanup Meets Standard: False  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: True  
Spill Record Last Update: 09/27/2001  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 11/15/1986  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
PBS Number: Not reported  
Tank Number: Not reported  
Test Method: Not reported  
Capacity of Failed Tank: Not reported  
Leak Rate Failed Tank: Not reported  
Gross Leak Rate: Not reported  
Material:  
Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: GASOLINE  
Class Type: Petroleum  
Chem Abstract Service Number: GASOLINE  
Last Date: 09/29/1994  
Num Times Material Entry In File: 21329  
DEC Remarks: / / : TYREE REMOVED FOUR TANKS/ DEC INVEST/.  
Spill Cause: Not reported

Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: (718) 729-6500  
Resource Affected: Groundwater  
Spill Source: Gas Station  
PBS Number: Not reported  
Reported to Dept: 11/03/1986 10:30

H25  
NW  
1/4-1/2  
1518 ft.  
Higher

SUNOCO GAS  
105 SHERIDAN BLVD  
INWOOD, NY

Site 2 of 3 in cluster H

LTANKS S103824663  
N/A

LTANKS:

Spill Number: 9812875  
Facility Contact: ABOVE CALLER  
Investigator: T/T/F  
Caller Name: Not reported  
Caller Phone: Not reported  
Region of Spill: 1  
Facility Tele: ( ) -  
SWIS: 28  
Caller Agency: Not reported  
Caller Extension: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SUNOCO GAS (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S103824663**

Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: LENNY MANZO  
Spiller: SUNOCO GAS  
Spiller Address: 105 SHERIDAN BLVD  
INWOOD, NY  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Spill Closed Dt: 02/03/1999  
Spill Cause: Tank Test Failure  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Spill Date: 01/19/1999 16:30  
Cleanup Ceased: Not reported  
Last Inspection: Not reported  
Cleanup Meets Standard: True  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: True  
Spill Record Last Update: 02/27/1999  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 01/19/1999  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
PBS Number: Not reported  
Tank Number: Not reported  
Test Method: Petro-Tite  
Capacity of Failed Tank: 6000  
Leak Rate Failed Tank: 0.00  
Gross Leak Rate: Not reported  
Material:  
Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: True  
Material: GASOLINE  
Class Type: Petroleum  
Chem Abstract Service Number: GASOLINE  
Last Date: 09/29/1994  
Num Times Material Entry In File: 21329  
DEC Remarks: SEE 98-12920 AND 92-08983  
Spill Cause: tank test failed - will isolate and retest - no spillage

**H26  
NW  
1/4-1/2  
1518 ft.  
Higher**  
**SUNOCO SERVICE STATION  
105 SHERIDAN BLVD  
INWOOD, NY 11096  
Site 3 of 3 in cluster H**

**RCRIS-SQG 1000328769  
FINDS NYD000701789  
LTANKS  
NY Spills**

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNOCO SERVICE STATION (Continued)**

**1000328769**

**RCRIS:**

Owner: SUN OIL COMPANY OF PENNSYLVANIA  
(212) 555-1212  
EPA ID: NYD000701789  
Contact: HOWARD ALGEO  
(215) 688-8200

Classification: Small Quantity Generator  
Used Oil Recyc: No  
TSDF Activities: Not reported  
Violation Status: No violations found

**FINDS:**

Other Pertinent Environmental Activity Identified at Site:  
Facility Registry System (FRS)  
Resource Conservation and Recovery Act Information system (RCRAINFO)

**SPILLS:**

Spill Number:	9208983	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	AUSTIN WELL	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	SUNOCO/LVF REALTY		
Spiller Address:	Not reported		
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	Not reported		
Spill Cause:	Deliberate	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Gas Station
Spill Notifier:	Citizen	PBS Number:	Not reported
Spill Date:	11/02/1992 12:00	Reported to Dept:	11/02/1992 15:30
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	12/12/2000		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	11/04/1992		
Date Region Sent Summary to Central Office:	03/01/1999		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**SUNOCO SERVICE STATION (Continued)**

**1000328769**

Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: GASOLINE  
Class Type: Petroleum  
Chem Abstract Service Number: GASOLINE  
Last Date: 09/29/1994  
Num Times Material Entry In File: 21329  
Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: WASTE OIL  
Class Type: Petroleum  
Chem Abstract Service Number: WASTE OIL  
Last Date: 09/27/1994  
Num Times Material Entry In File: 9509

Remark: CONTAMINATED SOIL IS BEING DUG UP AND DUMPED ELSEWHERE. ADDITIONAL CONTAMINATION BEING COVERED UP. NOV 2: PER SANDY GASOLINE INSTALLATION)- INSTALLING STAGE 2 VAPOR RECOVERY SYSTEM.

DEC Remarks: 11/02/92: Received anonymous complaint alleging contaminated soil being dug up and dumped elsewhere. DEC spoke to Gasoline Installations- they are installing Stage II Vapor Recovery; no contamination encountered.  
11/03/92 A): DEC Gibbons) onn site- GI had just removed 1 2K steel tank that had water in it. 11/03/92 B): Soil beneath tank heavily contaminated. Gasoline Installations refused to stockpile soil; they understood investigation would be required. 11/03/92 C): Three samples taken. Two to be held by GI pending further notice by DEC; one to be held by DEC NOT ANALYZED). Has sketch. 11/04/92 A): DEC Rice) on scene- GI removing soil from TOP of tanks in order to install secondary containment. Soil heavily contaminated. GI to stockpile same. Has sketch. 11/04/92 B): New foundation had been poured; supposedly no contamination in that area. 11/04/92 C): OWNER S PROPERTY?) REP ON SCENE- LVF REALTY 516-371-2424. 11/05/92: DEC Ricce) on scene- GI continuing work. Approx 8cy soil stockpiled total. Took sample of stockpiled soil NOT ANALYZED). 11/06/92: DEC Rice), GI, and LVF s rep on scene- advised LVF s rep of disposal requirements and need for further investigation. 11/09/92 A): DEC Rice), GI, and LVF on scene - GI removed 1 2K, 1 3K, and 1 4K steel gas tanks. All had light to moderate corrosion. Tanks ripped apart, unable to check for holes. Has sketch and pictures. 11/09/92 B): Removed approx 20cy soil from INSIDE and around tanks. Tanks had been improperly abandoned. LVF decided to not dig any further, but rather to have wells installed. 11/09/92 C): Contamination extended to groundwater. No floating product. 11/09/92 D): DEC took bottom sample NOT ANALYZED). 11/19/92: DEC Sottile) letter to Sunoco- Request wells, monitoring, and dissolved product testing. Gave deadline and scenario for failure to comply. 01/27/93: Sottile met GI on site to discuss well locations. 07/21/93: Environmental Assessment Remediation letter on behalf of Sunoco)- FEEL INVESTIGATION AND REMEDIATION NOT WARRANTED. Gives reasons. 08/25/93: Sottile letter to EAR, cc Sunoco- Must perform some type of investigation. Sample the existing new tank-bed) wells for dissolved product

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

SUNOCO SERVICE STATION (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000328769

duct, and DEC will evaluate. 08/30/93: EAR letter- Will sample well  
s. 09/01/93: EAR sampled wells. 03/09/94 A): EAR letter- enco  
se site and groundwater maps and data.. NEW TANKS AND TANK BED WELLS)  
ARE ON N EDGE OF SITE, UPGRADIENT OF OLD TANK BED. 03/09/94 B): ONE  
TANK BED WELL HAD UNSPECIFIED AMOUNT) FLOATING PRODUCT. Two of five we  
lls had very high MTBE; all had some MTBE and BTEX. 03/09/94 C):CLA  
IMED THAT THESE RESULTS COULD NOT HAVE BEEN FROM CURRENT TANK BED. 03  
/22/94: Sottile letter TO LVF REALTY- Request investigation and remedi  
ation. Gives deadline and scenario for failure to comply. 09/01/95:  
NASSAU COUNTY DPW MAY ACQUIRESOME OR ALL OF PROPERTY FOR ROADWORK. 01  
/26/96: NCDPW to DEC Campbell)- Their investigation has shown high  
levels of dissolved product. Road project has been delayed; would like  
to resolve issues. 03/29/96: Campbell spoke to LVF- THEY FFORWARDED  
22MAR94 LETTER TO SUNOCO. SUPPOSEDLY, SUNOCO HAD SAMPLED WELLS SEVERAL  
TIMES AND ASSUMED RESPONSIBILITY. 05/28/96: Campbell spoke to LVF-  
SUNOCO HAD NOT SAMPLED WELLS. Campbell to send investigation letters to  
him and Sunoco. 05/229/96: Letters to Sunoco and LVF- Request inves  
tigation and remediation. Gives scenario for failure to comply. 01/0  
8/97: Campbell spoke to LVF- LVF insisted Sunoco was sampling. DEC in  
formed him that we had checked with Sunoco and they are nnot sampling.  
DEC feels LVF is liable. LVF to talk to Sun. 05/09/97: DEC Campbell  
I, Sottile, Haas) on site- DEC TO HAVE SITES THAT HAVE NOT PERFORMED GR  
OUNDWATER INVESTIGATIONS SAMPLED TO PRIORITIZE WHICH NEED WORK. 05/29  
/97: Sottile on siite- JNM installing Geoprobes. 12/04/97: Campbel  
I letter to LVF- STATE IS ARRANGING FOR INVESTIGATION AND REMEDIATION.  
If you wish, may enter into Stipulation Agreement. State to seek reimbu  
rsement plus penalties. 01/18/99: 6K GAS UST FAILED TANK TEST. RE:  
SPILL 98-12875) GASOLINE INSTALLATIONS WILL EXCAVATE, ISOLATE REPAIR.  
01/28/98: Campbell on site with JNM- Installing and sampling wells. H  
as sketch. SITE CURRENTLY HAS 1 4K AND 3 6K TANKS. 01/29/98: Campbe  
ll and JNMon site- continuing investigation. CHECKED DEPTH TO WATER HO  
URLY DUE TO POSSIBLE TIDAL INFLUENCE. 01/12/99: GOMEZ MAILED STIPULA  
TION AGREEMENT TO LENNY MANZO/LVF REQUIRING SIGNED STIPULATION AGREEMENT  
WITHIN 14 DAYS. NO RESPONSE BY MANZO/LVF.01/18/99: 6K GAS UST FAILED TA  
NK TEST. SPILL 98-12875) GASOLINE INSTALLATIONS WILL EXCAVATE, ISOLATE  
REPAIR. 01/29/99: CAMPBELL witnessed JNM Environmental retrieving sam  
ples around the edge of the property. Sheen present in several of the sa  
mples. Samples were taken the following day by JNM from the tank bed we  
lls. 2/12/99: GOMEZ 2ND LETTER TO MANZO/LVF REGARDING THE STIP AGREE  
MENT, OFFERING FINAL DEADLINE OF MARCH 12, 1999 TO COMMIT TO CLEANUP OF  
THE SPILL \*\*\*NOTE: AREA HEEAVILY DEVELOPED MOSTLY COMMERCIAL) F  
OR LONG TIME. MAY HAVE BEEN PRIOR SPILLS HERE AND OTHER GAS STATIONS NE  
ARBY. 12/12/00 FILE REASSIGNED

LTANKS:

Spill Number:	9812920	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	T/T/F	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	SUNOCO		
Spiller Address:	105 SHERIDIAN BLVD INWOOD, NY -		
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**SUNOCO SERVICE STATION (Continued)**

**1000328769**

Spill Closed Dt: 02/03/1999  
Spill Cause: Tank Test Failure  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Spill Date: 01/20/1999 13:45  
Cleanup Ceased: Not reported  
Last Inspection: Not reported  
Cleanup Meets Standard: True  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: True  
Spill Record Last Update: 02/09/1999  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 01/20/1999  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
  PBS Number: Not reported  
  Tank Number: 1  
  Test Method: Petro-Tite  
  Capacity of Failed Tank: 6000  
  Leak Rate Failed Tank: 0.60  
  Gross Leak Rate: Not reported  
  PBS Number: Not reported  
  Tank Number: 2  
  Test Method: Petro-Tite  
  Capacity of Failed Tank: 6000  
  Leak Rate Failed Tank: 0.97  
  Gross Leak Rate: Not reported  
  PBS Number: Not reported  
  Tank Number: 4  
  Test Method: Petro-Tite  
  Capacity of Failed Tank: 4000  
  Leak Rate Failed Tank: 1.22  
  Gross Leak Rate: Not reported  
Material:  
  Material Class Type: 1  
  Quantity Spilled: 0  
  Units: Gallons  
  Unknown Qty Spilled: No  
  Quantity Recovered: 0  
  Unknown Qty Recovered: False  
  Material: DIESEL  
  Class Type: Petroleum  
  Chem Abstract Service Number: DIESEL  
  Last Date: 07/28/1994  
  Num Times Material Entry In File: 10625  
  Material Class Type: 1  
  Quantity Spilled: 0  
  Units: Gallons  
  Unknown Qty Spilled: No  
  Quantity Recovered: 0  
  Unknown Qty Recovered: False  
  Material: GASOLINE  
  Class Type: Petroleum

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SUNOCO SERVICE STATION (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**1000328769**

Chem Abstract Service Number: GASOLINE

Last Date: 09/29/1994

Num Times Material Entry In File: 21329

DEC Remarks: BELIEVES PROBLEM IS WITH VENT LINES, WILL ISOLATE AND TEST, TANKS WILL BE UNCOVERED 1/21, FM ON SITE 1/21, NO WATER IN TANKS, NO PRODUCT IN SITE WELLS SEE 98-12875 AND SIRT 92-08983

Spill Cause: TANK 4 IS DIESEL - THE OTHERS ARE GASOLINE - TANK 3 FAILED YESTERDAY AND WAS PREVIOUSLY CALLED IN

**27  
NW  
1/4-1/2  
1559 ft.  
Higher**

**COMMON BASEMENT  
116 SHERIDAN BLVD  
INWOOD, NY**

**LTANKS S103558978  
N/A**

**LTANKS:**

Spill Number: 9812044

Facility Contact: ROSETTA MOSES

Investigator: ACAMPORA

Caller Name: Not reported

Caller Phone: Not reported

Notifier Name: Not reported

Notifier Phone: Not reported

Spiller Contact: ROSETTA MOSES

Spiller: COMMON BASEMENT

Spiller Address: 116 SHERIDAN BLVD  
INWOOD, NY

Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

Spill Closed Dt: Not reported

Spill Cause: Tank Failure

Water Affected: Not reported

Spill Notifier: Fire Department

Spill Date: 12/26/1998 13:53

Cleanup Ceased: Not reported

Last Inspection: Not reported

Cleanup Meets Standard: False

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: Not reported

Enforcement Date: Not reported

Investigation Complete: Not reported

UST Involvement: False

Spill Record Last Update: 12/29/1998

Is Updated: False

Corrective Action Plan Submitted: Not reported

Date Spill Entered In Computer Data File: 12/26/1998

Date Region Sent Summary to Central Office: Not reported

**Tank Test:**

PBS Number: Not reported

Tank Number: Not reported

Test Method: Not reported

Capacity of Failed Tank: Not reported

Leak Rate Failed Tank: Not reported

Gross Leak Rate: Not reported

**Material:**

Material Class Type: 1

Quantity Spilled: 20

Units: Gallons

Unknown Qty Spilled: 20

Region of Spill: 1

Facility Tele: (516) 371-6420

SWIS: 28

Caller Agency: Not reported

Caller Extension: Not reported

Notifier Agency: Not reported

Notifier Extension: Not reported

Spiller Phone: (516) 371-6420

Resource Affected: On Land

Spill Source: Other Commercial/Industrial

PBS Number: Not reported

Reported to Dept: 12/26/1998 16:37

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

COMMON BASEMENT (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S103558978

Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464  
DEC Remarks: Not reported  
Spill Cause: business has 2 275 gal tanks - spill is from a leaking tank -it hasn't been determined which one is leaking -spill is contained in the basement  
- fuel company alena fuel will do clean up

28  
SSW  
1/4-1/2  
1708 ft.  
Higher

13-11 BAYPORT PLACE  
13-11 BAYPORT PLACE  
NYC, NY

LTANKS S100167542  
N/A

LTANKS:

Spill Number: 8801169  
Facility Contact: Not reported  
Investigator: BATTISTA  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: Not reported  
Spiller: NY TELEPHONE  
Spiller Address: 13-11 ARPORT PLACE  
QUEENS, NY

Region of Spill: 2  
Facility Tele: Not reported  
SWIS: 63  
Caller Agency: Not reported  
Caller Extension: Not reported  
Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: Not reported

Spill Class: Not reported  
Spill Closed Dt: 11/14/1991  
Spill Cause: Tank Test Failure  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Spill Date: 05/06/1988 10:45

Resource Affected: Groundwater  
Spill Source: Other Commercial/Industrial  
PBS Number: 2-343986  
Reported to Dept: 05/06/1988 14:47

Cleanup Ceased: 11/14/1991  
Last Inspection: Not reported  
Cleanup Meets Standard: True  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 05/26/1994  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 05/09/1988  
Date Region Sent Summary to Central Office: Not reported

Tank Test:

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

Material:

Material Class Type: 1  
Quantity Spilled: -1

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

13-11 BAYPORT PLACE (Continued)

EDR ID Number  
EPA ID Number

S100167542

Units: Gallons  
Unknown Qty Spilled: -1  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464  
DEC Remarks: 05/06/88: EXCAVATE ISOLATE RETEST. INITIAL SYSTEMS PETRO-TITE.  
Spill Cause: 10K TNAK, L R = GROSS VISIBLE LEAK. 5/23 : 10K TANK, 2 FUEL, L R = -0  
.307 GPH. TANK TEST ONLY.

I29  
NW  
1/4-1/2  
1709 ft.  
Higher

LILCO  
SHERIDAN BLVD/NASSAU BLVD  
INWOOD, NY

LTANKS S100560463  
NY Spills N/A

Site 1 of 2 in cluster I

SPILLS:

Spill Number:	9313146	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	NONE	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	LILCO		
Spiller Address:	Not reported		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	02/07/1994		
Spill Cause:	Equipment Failure	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Spill Notifier:	Responsible Party	PBS Number:	Not reported
Spill Date:	02/06/1994 06:00	Reported to Dept:	02/06/1994 10:25
Cleanup Ceased:	02/07/1994		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	02/10/1994		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	02/07/1994		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

LILCO (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S100560463

Quantity Spilled: 1  
Units: Gallons  
Unknown Qty Spilled: Yes  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: NON PCB OIL  
Class Type: Petroleum  
Chem Abstract Service Number: NON PCB OIL  
Last Date: 09/28/1994  
Num Times Material Entry In File: 2798

Remark: POLE 456, TRANSFORMER ERUPTED, SPEEDI DRI APPLIED, POLE WAS HIT BY CAR,  
, HAS BEEN CLEANED UP  
DEC Remarks: 02/07/94: NO RESPONSE NEEDED.

This is the most recent NY SPILLS record for this site.  
The NY SPILLS database contains 4 additional records for this site.  
Please contact your EDR Account Executive for more information.

LTANKS:

Spill Number:	9306390	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	CAMPBELL	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	LILCO		
Spiller Address:	Not reported		
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.		
Spill Closed Dt:	11/10/1993		
Spill Cause:	Tank Failure	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Spill Notifier:	Affected Persons	PBS Number:	Not reported
Spill Date:	08/23/1993 12:00	Reported to Dept:	08/24/1993 16:25
Cleanup Ceased:	11/10/1993		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	True		
Spill Record Last Update:	12/03/2001		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	08/26/1993		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

LILCO (Continued)

S100560463

Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: GASOLINE  
Class Type: Petroleum  
Chem Abstract Service Number: GASOLINE  
Last Date: 09/29/1994  
Num Times Material Entry In File: 21329  
DEC Remarks: Not reported  
Spill Cause: LARGE TANK ON PROPERTY WAS LEAKING

I30  
NW  
1/4-1/2  
1757 ft.  
Higher

PRIDE  
153 SHERIDAN BLVD  
INWOOD, NY

LTANKS S100172352  
N/A

Site 2 of 2 in cluster I

LTANKS:

Spill Number: 8400255  
Facility Contact: Not reported  
Investigator: GOMEZ WELL  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: Not reported  
Spiller: HANK-BEN (PRIDE)  
Spiller Address: 1056 NEILSON STREET  
FAR ROCKAWAY, NY 11691  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Unable/unwilling Responsible Party. Corrective action taken. (ISR)  
Spill Closed Dt: 03/28/1996  
Spill Cause: Tank Test Failure  
Water Affected: Not reported  
Spill Notifier: Other  
Spill Date: 04/25/1984 10:00  
Cleanup Ceased: Not reported  
Last Inspection: Not reported  
Cleanup Meets Standard: False  
Recommended Penalty: Penalty Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: True  
Spill Record Last Update: 07/07/1997  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 06/17/1986  
Date Region Sent Summary to Central Office: 03/28/1996  
Tank Test:  
PBS Number: Not reported  
Tank Number: Not reported  
Test Method: Not reported  
Capacity of Failed Tank: 0  
Leak Rate Failed Tank: 0.00  
Gross Leak Rate: Not reported  
Material:

Region of Spill: 1  
Facility Tele: Not reported  
SWIS: 28  
Caller Agency: Not reported  
Caller Extension: Not reported  
Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: (212) 327-6946  
Resource Affected: Groundwater  
Spill Source: Gas Station  
PBS Number: Not reported  
Reported to Dept: 04/26/1984 11:28



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**PRIDE (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S100172352**

Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 1850  
Unknown Qty Recovered: False  
Material: GASOLINE  
Class Type: Petroleum  
Chem Abstract Service Number: GASOLINE  
Last Date: 09/29/1994  
Num Times Material Entry In File: 21329  
Spill Cause: BEN FELDMAN LIVED IN FAR R. CO-OWNER: HENRY STARK 1025 COUNTRY CLUB DR M  
ARGATE FL 33063 305-972-3363 DECEASED AS PER 12-11-84 NOTE)

The LTANKS database contains additional information for this site.  
Please contact your EDR Account Executive for more information.

**31  
NNE  
1/4-1/2  
1772 ft.  
Higher**

**SLOMINS OIL  
113A DOUGHTY BLVD  
INWOOD, NY**

**LTANKS S102668212  
N/A**

**LTANKS:**

Spill Number:	8701371	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	WALEK FD	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	SLOMINS OIL		
Spiller Address:	Not reported		
Spill Class:	Not reported		
Spill Closed Dt:	05/27/1987		
Spill Cause:	Tank Overfill	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Tank Truck
Spill Notifier:	Responsible Party	PBS Number:	Not reported
Spill Date:	05/19/1987 11:30	Reported to Dept:	05/19/1987 12:49
Cleanup Ceased:	05/27/1987		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	02/24/1999		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	05/21/1987		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SLOMINS OIL (Continued)**

EDR ID Number  
EPA ID Number

**S102668212**

Gross Leak Rate: Not reported  
Material:  
Material Class Type: 1  
Quantity Spilled: 3  
Units: Gallons  
Unknown Qty Spilled: 3  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464  
DEC Remarks: / / : SPILLER CLEANING UP. NCDH NOTIFIED. / / : SPILLER CLEANING  
UP. NCDH NOTIFIED. 5/26/87 AREA ALL CLEAN.  
Spill Cause: Not reported

32  
NNW  
1/4-1/2  
1776 ft.  
Higher

**J&H CARPET  
439 BAYVIEW AVENUE  
INWOOD, NY**

**LTANKS S100173651  
NY Spills N/A**

**SPILLS:**

Spill Number: 9700250  
Facility Contact: UNK  
Investigator: AUSTIN  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: MARK  
Spiller: WEYANT OIL  
Spiller Address: 3555 HARGALE ROAD  
OCEANSIDE, NY 11572  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Spill Closed Dt: 04/09/1998  
Spill Cause: Human Error  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Spill Date: 04/04/1997 14:15  
Cleanup Ceased: Not reported  
Last Inspection: Not reported  
Cleanup Meets Standard: True  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 04/10/1998  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 04/04/1997  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
PBS Number: Not reported  
Tank Number: Not reported  
Test Method: Not reported

Region of Spill: 1  
Facility Tele: Not reported  
SWIS: 28  
Caller Agency: Not reported  
Caller Extension: Not reported  
Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: Not reported  
Resource Affected: On Land  
Spill Source: Tank Truck  
PBS Number: Not reported  
Reported to Dept: 04/04/1997 15:07

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**J&H CARPET (Continued)**

**S100173651**

Capacity of Failed Tank: Not reported  
Leak Rate Failed Tank: Not reported  
Gross Leak Rate: Not reported

**Material:**

Material Class Type: 1  
Quantity Spilled: 50  
Units: Gallons  
Unknown Qty Spilled: 50  
Quantity Recovered: 0  
Unknown Qty Recovered: True  
Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464

**Remark:** CALLER STATES HUMAN ERROR AT THE SITE CAUSED THE SPILL OF PRODUCT AT THE FILL LINE TO THE TANK.

**DEC Remarks:** WEYANT OIL HAS CREWS ON SITE RIGHT NOW CLEANING UP WITH SPEEDI DRI DRUMS. NO DRAINS IMPACTED. SPILL IS ON ASPHALT. CLEANING UP WITH SPEEDI DRI NCFM OVERSAW CLEANUP, REPORT THAT NO DRAINS WERE AFFECTED. SPILL ON ASPHALT. DISPOSAL RECPTS FILED

**LTANKS:**

Spill Number: 9003583  
Facility Contact: Not reported  
Investigator: KISPERT  
Caller Name: Not reported  
Caller Phone: Not reported  
Notifier Name: Not reported  
Notifier Phone: Not reported  
Spiller Contact: Not reported  
Spiller: J&H CARPET  
Spiller Address: 439 BAYVIEW AVENUE  
INWOOD, NY 11696

Region of Spill: 1  
Facility Tele: Not reported  
SWIS: 28  
Caller Agency: Not reported  
Caller Extension: Not reported  
Notifier Agency: Not reported  
Notifier Extension: Not reported  
Spiller Phone: (516) 239-8000

**Spill Class:** Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Spill Closed Dt:** 06/07/1993

**Spill Cause:** Tank Failure

**Water Affected:** Not reported

**Spill Notifier:** Tank Tester

**Spill Date:** 06/28/1990 16:00

**Cleanup Ceased:** 06/07/1993

**Last Inspection:** 19930409

**Cleanup Meets Standard:** True

**Recommended Penalty:** Penalty Not Recommended

**Spiller Cleanup Date:** Not reported

**Enforcement Date:** Not reported

**Investigation Complete:** Not reported

**UST Involvement:** True

**Spill Record Last Update:** 10/28/1994

**Is Updated:** False

**Corrective Action Plan Submitted:** Not reported

**Date Spill Entered In Computer Data File:** 07/02/1990

**Date Region Sent Summary to Central Office:** 09/28/1994

**Tank Test:**

**PBS Number:** Not reported

**Tank Number:** Not reported

**Test Method:** Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**J&H CARPET (Continued)**

**S100173651**

Capacity of Failed Tank: Not reported  
Leak Rate Failed Tank: Not reported  
Gross Leak Rate: Not reported

**Material:**

Material Class Type: 1  
Quantity Spilled: 0  
Units: Gallons  
Unknown Qty Spilled: No  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: GASOLINE  
Class Type: Petroleum  
Chem Abstract Service Number: GASOLINE  
Last Date: 09/29/1994  
Num Times Material Entry In File: 21329

DEC Remarks: 06/28/90: FENLEY NICOL REPORTS A 4K GAS TANK FAILED A PETRO-TITE TEST AT -.267GPH. TEST REPORT SAYS -.295; ALSO SAYS TANK SUPPOSEDLY ABANDONED W/WATER FOR 3 YRS BUT STILL HAS 5 GAS IN IT). 07/02/90: DEC SENDS 3OPTION LETTER TO J H. GIVES SCEENARIO FOR FAILURE TO COMPLY. 02/23/93: THIS DATE?): ANS CALLED- WILL RETEST THE TANK ALONE. IF IT PASSES , THEY WISH TO ABANDON THE TANK OR TANKS?). 03/09/93: F N SAYS THEY DID NO FURTHER WORK AFTER THE INITIAL TESTING. 03/11/93: GASOLINEINSTAL LATIONS SAYS THEY WILL BE REMOVING THE TANKS. 03/15/93: RECEIVE COPY OF THE 1990 TEST REPORT FROM F N. 04/09/93: A: DEC KISP(PT) ON SITE WITH ANS- REMOVED 3 4K STEEL GAS TANKS. SOME CORROSION FOUND, BUT NO HOLES SEEN. NO CONTAMINATIONFOUND IN THE SOIL, BUT SLIGHT SHEEN ON THE WATER. 04/09/93: B: SAMPLE OF WATER TAKEN AND SPLIT. WILL BE ANALYZE FOR BTX MTBE. GAVE OK TO BACKFILL. 04/14/93: ANS SAYS THEY WILL USE ECOTEST. DEC DROPPED ITS SPLIT OFF AT CONTEST. 05/06/93:RECEIVE REPORT FROM CONTEST: FIND 200PPB XYLENE AND 76PPB MTBE. 06/07/93: DEC CLOS ES REGIONAL FILE: NO REMEDIAL ACTION NEEDED AT THIS TIME.

Spill Cause: 4K TANK TANK FAILED PETROTITE TEST.

J33  
NNW  
1/4-1/2  
1868 ft.  
Higher

**SHELL OIL COMPANY**  
**20 ROGER AVENUE**  
**INWOOD, NY 11696**  
  
**Site 1 of 3 in cluster J**

**CBS AST**  
**MOSF UST**  
**MOSF AST**  
  
**S102633434**  
**N/A**

**CBS AST:**

CBS Number: 1-000380  
Owner: SHELL OIL COMPANY  
PO BOX 1703  
ATLANTA, GA 30371  
(404) 955-4600

Telephone: (516) 239-4437

Facility Status: Inactive  
Total Tanks: 0  
Tank Status: 0  
Tank Error Status: Minor Data Missing  
Tank Location: Aboveground  
Install Date: 12/84  
Capacity (Gal): 7560  
Tank Type: Steel/carbon steel  
Substance: Not reported  
Extrnl Protection:  
Intrnl Protection: Not reported  
Tank Containment: Diking  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported

Pipe Location: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	Xylene (mixed)	Tank Closed:	09/92
PBS Number:	Not reported	SWIS Code:	2820
Federal ID:	Not reported		
MOSF Number:	1-1520	CAS Number:	1330207
SPDES Number:	Not reported	ICS Number:	1-179759
Facility Type:	Not reported		
Operator:	G.R. MALKIN	Facility Town:	HEMPSTEAD
Emrgncy Contact:	M.A. D'ANTONIO	Emrgncy Phone:	(516) 239-4437
Certified Date:	01/16/1992	Expiration Date:	10/12/1992
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	SHELL OIL COMPANY		
Mail Contact:	M.A. D'ANTONIO		
	PO BOX 1703		
	ATLANTA, GA 30371		
Mail Phone:	(404) 955-4600		
Tank Secret:	False	Date Entered:	10/12/1990 07:47:36
Last Test:	Not reported	Due Date:	Not reported
Pipe Flag:	False	Owner Mark:	1
Renew Date:	07/01/92	Date Expired:	10/12/92
Is it There:	False	Is Updated:	False
Owner Status:	F		
Certificate Needs to be Printed:	False		
Fiscal Amt for Registration Fee Correct:	True		
Renewal Has Been Printed for Facility:	True		
Total Capacity of All Active Tanks(gal):	No		
Unique Tank Id Number:	3		
Date Pre-Printed Renewal App Form Was Last Printed:			07/01/1992
CBS Number:	1-000380	Telephone:	(516) 239-4437
Owner:	SHELL OIL COMPANY		
	PO BOX 1703		
	ATLANTA, GA 30371		
	(404) 955-4600		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	0		
Tank Error Status:	Minor Data Missing		
Tank Location:	Aboveground		
Install Date:	12/63		
Capacity (Gal):	16800		
Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	Diking		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	Xylene (mixed)	Tank Closed:	09/92

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

PBS Number:	Not reported	SWIS Code:	2820
Federal ID:	Not reported		
MOSF Number:	1-1520	CAS Number:	1330207
SPDES Number:	Not reported	ICS Number:	1-179759
Facility Type:	Not reported		
Operator:	G.R. MALKIN	Facility Town:	HEMPSTEAD
Emrgncy Contact:	M.A. D'ANTONIO	Emrgncy Phone:	(516) 239-4437
Certified Date:	01/16/1992	Expiration Date:	10/12/1992
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	SHELL OIL COMPANY		
Mail Contact:	M.A. D'ANTONIO		
	PO BOX 1703		
	ATLANTA, GA 30371		
Mail Phone:	(404) 955-4600		
Tank Secret:	False	Date Entered:	10/12/1990 07:47:51
Last Test:	Not reported	Due Date:	Not reported
Pipe Flag:	False	Owner Mark:	1
Renew Date:	07/01/92	Date Expired:	10/12/92
Is it There:	False	Is Updated:	False
Owner Status:	F		
Certificate Needs to be Printed:	False		
Fiscal Amt for Registration Fee Correct:	True		
Renewal Has Been Printed for Facility:	True		
Total Capacity of All Active Tanks(gal):	No		
Unique Tank Id Number:	11		
Date Pre-Printed Renewal App Form Was Last Printed:	07/01/1992		
MOSF UST:			
Facility ID:	1-1520	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	HEMPSTEAD
Tank Status:	0	Federal Id No	Not reported
Operator:	M.A. D'ANTONIO	Contact Phone:	(516) 239-4437
Owner:	SHELL OIL COMPANY		
	P.O. BOX 1703		
	ATLANTA, GA 30371		
Owner Tel:	(404) 955-4635	Owner Type:	UNDEFINED
Mail To:	SHELL OIL COMPANY		
	P.O. BOX 1703		
	ATLANTA, GA 30371		
	ATTN: J.S. SPINELLE		
	(404) 955-4736		
Owner Status:	1	COI Date:	/ /
Legal Agent:	C.T. CORPORATION		
	277 PARK AVENUE		
	NEW YORK, NY 10017		
Date Filed:	07/76	CBS Number:	1-000380
Emerg Contact:	J.J. ROGERS, (718) 383-4066		
SPDES Num:	0-006190		
Total Tanks:	0	Total Capacity:	0
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	2311389	License Stat:	Not reported
License Issued:	04/02/1990	Expiration Date:	03/31/1991
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/11/1991	Tank ID:	A
Tank Location:	Underground		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

Install Date:	01/83	Capacity (Gal):	4000
Product:	Empty	Tank Internal:	None
Tank Type:	Plastic		
Tank External:	Sacrificial Anode		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Sacrificial Anode		
Second Contain:	None		
Leak Detection:	30		
Overfill Protection:	None		
Test Date:	Not reported	Date Closed:	01/83
Lat/Long:	40 37 00 / 73 45 30		
Inspected Date:	/ /		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	M.A. D'ANTONIO
Prod Xfer Options:	C	Operator Name:	M.A. D'ANTONIO
Inspector Status:	Not reported	License Issued:	04/02/1990
Vessel Id:	Not reported	Renew Date:	11/21/1990
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1520	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	HEMPSTEAD
Tank Status:	0	Federal Id No	Not reported
Operator:	M.A. D'ANTONIO	Contact Phone:	(516) 239-4437
Owner:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		
Owner Tel:	(404) 955-4635	Owner Type:	UNDEFINED
Mail To:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371 ATTN: J.S. SPINELLE (404) 955-4736		
Owner Status:	1	COI Date:	/ /
Legal Agent:	C.T. CORPORATION 277 PARK AVENUE NEW YORK, NY 10017		
Date Filed:	07/76	CBS Number:	1-000380
Emerg Contact:	J.J. ROGERS, (718) 383-4066		
SPDES Num:	0-006190		
Total Tanks:	0	Total Capacity:	0
Tank Status:	In Service		
Status of Data:	Complete		
Avg Throughput:	2311389	License Stat:	Not reported
License Issued:	04/02/1990	Expiration Date:	03/31/1991
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/11/1991	Tank ID:	B
Tank Location:	Underground		
Install Date:	01/74	Capacity (Gal):	1500
Product:	Unleaded Gasoline	Tank Internal:	None
Tank Type:	Steel/carbon steel		
Tank External:	Sacrificial Anode		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Sacrificial Anode		
Second Contain:	None		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

Leak Detection:	30		
Overfill Protection:	None		
Test Date:	Not reported	Date Closed:	06/91
Lat/Long:	40 37 00 / 73 45 30		
Inspected Date:	/ /		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	M.A. D'ANTONIO
Prod Xfer Options:	C	Operator Name:	M.A. D'ANTONIO
Inspector Status:	Not reported	License Issued:	04/02/1990
Vessel Id:	Not reported	Renew Date:	11/21/1990
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1520	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	HEMPSTEAD
Tank Status:	0	Federal Id No	Not reported
Operator:	M.A. D'ANTONIO	Contact Phone:	(516) 239-4437
Owner:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		
Owner Tel:	(404) 955-4635	Owner Type:	UNDEFINED
Mail To:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371 ATTN: J.S. SPINELLE (404) 955-4736		
Owner Status:	1	COI Date:	/ /
Legal Agent:	C.T. CORPORATION 277 PARK AVENUE NEW YORK, NY 10017		
Date Filed:	07/76	CBS Number:	1-000380
Emerg Contact:	J.J. ROGERS, (718) 383-4066		
SPDES Num:	0-006190		
Total Tanks:	0	Total Capacity:	0
Tank Status:	In Service		
Status of Data:	Minor Errors		
Avg Throughput:	2311389	License Stat:	Not reported
License Issued:	04/02/1990	Expiration Date:	03/31/1991
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/11/1991	Tank ID:	C
Tank Location:	Underground		
Install Date:	12/54	Capacity (Gal):	300
Product:	Empty	Tank Internal:	Not reported
Tank Type:	Steel/carbon steel		
Tank External:	Not reported		
Pipe Location:	Not reported	Pipe Type:	Not reported
Pipe Internal:	Not reported	Dispenser:	Suction
Pipe External:	Not reported		
Second Contain:	Not reported		
Leak Detection:	None		
Overfill Protection:	None		
Test Date:	Not reported	Date Closed:	06/91
Lat/Long:	40 37 00 / 73 45 30		
Inspected Date:	/ /		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	M.A. D'ANTONIO
Prod Xfer Options:	C	Operator Name:	M.A. D'ANTONIO



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

Inspector Status:	Not reported	License Issued:	04/02/1990
Vessel Id:	Not reported	Renew Date:	11/21/1990
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1520	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	HEMPSTEAD
Tank Status:	0	Federal Id No	Not reported
Operator:	M.A. D'ANTONIO	Contact Phone:	(516) 239-4437
Owner:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371	Owner Type:	UNDEFINED
Owner Tel:	(404) 955-4635		
Mail To:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371 ATTN: J.S. SPINELLE (404) 955-4736		
Owner Status:	1	COI Date:	/ /
Legal Agent:	C.T. CORPORATION 277 PARK AVENUE NEW YORK, NY 10017		
Date Filed:	07/76	CBS Number:	1-000380
Emerg Contact:	J.J. ROGERS, (718) 383-4066		
SPDES Num:	0-006190		
Total Tanks:	0	Total Capacity:	0
Tank Status:	In Service		
Status of Data:	Complete	License Stat:	Not reported
Avg Throughput:	2311389	Expiration Date:	03/31/1991
License Issued:	04/02/1990		
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge	Tank ID:	D
Applic Rcvd:	01/11/1991		
Tank Location:	Underground	Capacity (Gal):	1000
Install Date:	12/50	Tank Internal:	None
Product:	Nos. 1, 2, or 4 Fuel Oil		
Tank Type:	Steel/carbon steel		
Tank External:	Sacrificial Anode	Pipe Type:	STEEL/IRON
Pipe Location:	Aboveground/Underground Combination	Dispenser:	Suction
Pipe Internal:	None		
Pipe External:	Sacrificial Anode		
Second Contain:	None		
Leak Detection:	30		
Overfill Protection:	None		
Test Date:	Not reported	Date Closed:	06/91
Lat/Long:	40 37 00 / 73 45 30		
Inspected Date:	/ /		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	M.A. D'ANTONIO
Prod Xfer Options:	C	Operator Name:	M.A. D'ANTONIO
Inspector Status:	Not reported	License Issued:	04/02/1990
Vessel Id:	Not reported	Renew Date:	11/21/1990
Pipe Flag:	True	Renew Flag:	True
Facility ID:	1-1520	Facility Status:	INACTIVE FACILITY
SWIS Code:	28	Facility Town:	HEMPSTEAD
Tank Status:	0	Federal Id No	Not reported
Operator:	M.A. D'ANTONIO	Contact Phone:	(516) 239-4437

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

Owner:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371	Owner Type:	UNDEFINED
Owner Tel:	(404) 955-4635		
Mail To:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371 ATTN: J.S. SPINELLE (404) 955-4736		
Owner Status:	1	COI Date:	/ /
Legal Agent:	C.T. CORPORATION 277 PARK AVENUE NEW YORK, NY 10017		
Date Filed:	07/76	CBS Number:	1-000380
Emerg Contact:	J.J. ROGERS, (718) 383-4066		
SPDES Num:	0-006190		
Total Tanks:	0	Total Capacity:	0
Tank Status:	In Service		
Status of Data:	Minor Errors		
Avg Throughput:	2311389	License Stat:	Not reported
License Issued:	04/02/1990	Expiration Date:	03/31/1991
Facility Type:	Storage Terminal		
Transfer Operation:	Vessel/Barge		
Applic Rcvd:	01/11/1991	Tank ID:	E
Tank Location:	Underground		
Install Date:	12/50	Capacity (Gal):	3000
Product:	Empty	Tank Internal:	Not reported
Tank Type:	Steel/carbon steel		
Tank External:	Not reported		
Pipe Location:	Not reported	Pipe Type:	Not reported
Pipe Internal:	Not reported	Dispenser:	Suction
Pipe External:	Not reported		
Second Contain:	Not reported		
Leak Detection:	None		
Overfill Protection:	None		
Test Date:	Not reported	Date Closed:	00/00
Lat/Long:	40 37 00 / 73 45 30		
Inspected Date:	/ /		
Inspector Initials:	Not reported		
Owner Mark:	1	Operator Name:	M.A. D'ANTONIO
Prod Xfer Options:	C	Operator Name:	M.A. D'ANTONIO
Inspector Status:	Not reported	License Issued:	04/02/1990
Vessel Id:	Not reported	Renew Date:	11/21/1990
Pipe Flag:	True	Renew Flag:	True
MOSF AST:			
MOSF Number:	1-1520	Telephone:	(516) 239-4437
Federal ID:	Not reported		
Facility Type:	Storage Terminal		
Facility Status:	INACTIVE FACILITY		
Tank Status:	0		
Owner:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		
Owner Tel:	(404) 955-4635		
Owner Type:	Corporate/Commercial		
Tank Status:	In Service	Tank ID:	4
Total Tanks:	0	Daily Throughput	2311389 Gal(s)

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

Tank Location:	Aboveground	Total Capacity:	0
Install Date:	11/85		
Tank Type:	Steel/carbon steel		
Tank External:	None		
Tank Internal:	None		
Product:	Empty	Capacity (gal):	6000
Status of Data:	Complete		
Pipe Location:	Aboveground	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Gravity
Pipe External:	None		
Second Contain:	Concrete Dike		
Leak Detection:	None		
Overfill Protection:	None		
Test Date:	Not reported	Date Closed:	06/91
Dispensing Mthd:	Gravity		
SWIS Code:	28	Facility Town:	HEMPSTEAD
Mailing Name:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		
Mailing Contact:	J.S. SPINELLE		
Mailing Phone:	(404) 955-4736		
Pipe Flag:	True		
Reserve Flag:	True		
Legal Agent:	C.T. CORPORATION 277 PARK AVENUE NEW YORK, NY 10017		
Date Legal Agent Filed with Secretary of State:	07/76		
Name of Emergency Contact:	J.J. ROGERS		
Emergency Contact Telephone:	(718) 383-4066		
Chemical Bulk Storage Number:	1-000380		
Pollution Discharge Elimination System Num:	0-006190		
License Status:	License Pending		
Date License Application Received:	01/11/1991		
Date License Issued:	04/02/1990		
Product Transfer Operation:	Vessel/Barge (Including off-shore platform)		
Operator Name:	M.A. D'ANTONIO		
Lat/Long:	40 37 00 / 73 45 30		
Vessel ID:	Not reported		
Inspected State:	Not reported		
Inspected Date:	/ /		
Owner Status:	1		
Owner Mark:	1		
LIC Expires:	03/31/1991		
Renew Date:	11/21/1990		
Inspector Initials:	Not reported		
COI Date:	/ /		
MOSF Number:	1-1520	Telephone:	(516) 239-4437
Federal ID:	Not reported		
Facility Type:	Storage Terminal		
Facility Status:	INACTIVE FACILITY		
Tank Status:	0		
Owner:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		
Owner Tel:	(404) 955-4635		
Owner Type:	Corporate/Commercial		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

Tank Status:	In Service	Tank ID:	1
Total Tanks:	0	Daily Throughput	2311389 Gal(s)
Tank Location:	Aboveground	Total Capacity:	0
Install Date:	12/75		
Tank Type:	Steel/carbon steel		
Tank External:	Sacrificial Anode		
Tank Internal:	Epoxy Liner		
Product:	Leaded Gasoline	Capacity (gal):	205800
Status of Data:	Complete		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Sacrificial Anode		
Second Contain:	Concrete Dike		
Leak Detection:	30		
Overfill Protection:	24		
Test Date:	Not reported	Date Closed:	06/91
Dispensing Mthd:	Suction		
SWIS Code:	28	Facility Town:	HEMPSTEAD
Mailing Name:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		
Mailing Contact:	J.S. SPINELLE		
Mailing Phone:	(404) 955-4736		
Pipe Flag:	True		
Reserve Flag:	True		
Legal Agent:	C.T. CORPORATION 277 PARK AVENUE NEW YORK, NY 10017		
Date Legal Agent Filed with Secretary of State:	07/76		
Name of Emergency Contact:	J.J. ROGERS		
Emergency Contact Telephone:	(718) 383-4066		
Chemical Bulk Storage Number:	1-000380		
Pollution Discharge Elimination System Num:	0-006190		
License Status:	License Pending		
Date License Application Received:	01/11/1991		
Date License Issued:	04/02/1990		
Product Transfer Operation:	Vessel/Barge (Including off-shore platform)		
Operator Name:	M.A. D'ANTONIO		
Lat/Long:	40 37 00 / 73 45 30		
Vessel ID:	Not reported		
Inspected State:	Not reported		
Inspected Date:	/ /		
Owner Status:	1		
Owner Mark:	1		
LIC Expires:	03/31/1991		
Renew Date:	11/21/1990		
Inspector Initials:	Not reported		
COI Date:	/ /		
MOSF Number:	1-1520	Telephone:	(516) 239-4437
Federal ID:	Not reported		
Facility Type:	Storage Terminal		
Facility Status:	INACTIVE FACILITY		
Tank Status:	0		
Owner:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

**S102633434**

Owner Tel:	(404) 955-4635		
Owner Type:	Corporate/Commercial		
Tank Status:	In Service	Tank ID:	2
Total Tanks:	0	Daily Throughput	2311389 Gal(s)
Tank Location:	Aboveground		
Install Date:	12/51	Total Capacity:	0
Tank Type:	Steel/carbon steel		
Tank External:	Sacrificial Anode		
Tank Internal:	Epoxy Liner		
Product:	Empty	Capacity (gal):	214200
Status of Data:	Complete		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Sacrificial Anode		
Second Contain:	Concrete Dike		
Leak Detection:	30		
Overfill Protection:	24		
Test Date:	Not reported	Date Closed:	06/91
Dispensing Mthd:	Suction		
SWIS Code:	28	Facility Town:	HEMPSTEAD
Mailing Name:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		
Mailing Contact:	J.S. SPINELLE		
Mailing Phone:	(404) 955-4736		
Pipe Flag:	True		
Reserve Flag:	True		
Legal Agent:	C.T. CORPORATION 277 PARK AVENUE NEW YORK, NY 10017		
Date Legal Agent Filed with Secretary of State:	07/76		
Name of Emergency Contact:	J.J. ROGERS		
Emergency Contact Telephone:	(718) 383-4066		
Chemical Bulk Storage Number:	1-000380		
Pollution Discharge Elimination System Num:	0-006190		
License Status:	License Pending		
Date License Application Received:	01/11/1991		
Date License Issued:	04/02/1990		
Product Transfer Operation:	Vessel/Barge (Including off-shore platform)		
Operator Name:	M.A. D'ANTONIO		
Lat/Long:	40 37 00 / 73 45 30		
Vessel ID:	Not reported		
Inspected State:	Not reported		
Inspected Date:	/ /		
Owner Status:	1		
Owner Mark:	1		
LIC Expires:	03/31/1991		
Renew Date:	11/21/1990		
Inspector Initials:	Not reported		
COI Date:	/ /		
MOSF Number:	1-1520	Telephone:	(516) 239-4437
Federal ID:	Not reported		
Facility Type:	Storage Terminal		
Facility Status:	INACTIVE FACILITY		
Tank Status:	0		
Owner:	SHELL OIL COMPANY		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S102633434**

Owner Tel:	P.O. BOX 1703 ATLANTA, GA 30371 (404) 955-4635	Tank ID:	3
Owner Type:	Corporate/Commercial	Daily Throughput	2311389 Gal(s)
Tank Status:	In Service	Total Capacity:	0
Total Tanks:	0	Capacity (gal):	8000
Tank Location:	Aboveground	Pipe Type:	STEEL/IRON
Install Date:	09/85	Dispenser:	Submersible
Tank Type:	Steel/carbon steel		
Tank External:	None		
Tank Internal:	None		
Product:	Empty		
Status of Data:	Complete		
Pipe Location:	Aboveground		
Pipe Internal:	None		
Pipe External:	None		
Second Contain:	Concrete Dike		
Leak Detection:	None		
Overfill Protection:	None		
Test Date:	Not reported	Date Closed:	06/91
Dispensing Mthd:	Submersible	Facility Town:	HEMPSTEAD
SWIS Code:	28		
Mailing Name:	SHELL OIL COMPANY P.O. BOX 1703 ATLANTA, GA 30371		
Mailing Contact:	J.S. SPINELLE		
Mailing Phone:	(404) 955-4736		
Pipe Flag:	True		
Reserve Flag:	True		
Legal Agent:	C.T. CORPORATION 277 PARK AVENUE NEW YORK, NY 10017		
Date Legal Agent Filed with Secretary of State:	07/76		
Name of Emergency Contact:	J.J. ROGERS		
Emergency Contact Telephone:	(718) 383-4066		
Chemical Bulk Storage Number:	1-000380		
Pollution Discharge Elimination System Num:	0-006190		
License Status:	License Pending		
Date License Application Received:	01/11/1991		
Date License Issued:	04/02/1990		
Product Transfer Operation:	Vessel/Barge (Including off-shore platform)		
Operator Name:	M.A. D'ANTONIO		
Lat/Long:	40 37 00 / 73 45 30		
Vessel ID:	Not reported		
Inspected State:	Not reported		
Inspected Date:	/ /		
Owner Status:	1		
Owner Mark:	1		
LIC Expires:	03/31/1991		
Renew Date:	11/21/1990		
Inspector Initials:	Not reported		
COI Date:	/ /		
MOSF Number:	1-1520	Telephone:	(516) 239-4437
Federal ID:	Not reported		
Facility Type:	Storage Terminal		
Facility Status:	INACTIVE FACILITY		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S102633434**

Tank Status:	0		
Owner:	SHELL OIL COMPANY		
	P.O. BOX 1703		
	ATLANTA, GA 30371		
Owner Tel:	(404) 955-4635		
Owner Type:	Corporate/Commercial		
Tank Status:	In Service	Tank ID:	8
Total Tanks:	0	Daily Throughput	2311389 Gal(s)
Tank Location:	Aboveground		
Install Date:	12/75	Total Capacity:	0
Tank Type:	Steel/carbon steel		
Tank External:	None		
Tank Internal:	None		
Product:	Empty	Capacity (gal):	29389
Status of Data:	Complete		
Pipe Location:	Aboveground/Underground Combination	Pipe Type:	STEEL/IRON
Pipe Internal:	None	Dispenser:	Suction
Pipe External:	Sacrificial Anode		
Second Contain:	Other		
Leak Detection:	39		
Overfill Protection:	24		
Test Date:	Not reported	Date Closed:	06/91
Dispensing Mthd:	Suction		
SWIS Code:	28	Facility Town:	HEMPSTEAD
Mailing Name:	SHELL OIL COMPANY		
	P.O. BOX 1703		
	ATLANTA, GA 30371		
Mailing Contact:	J.S. SPINELLE		
Mailing Phone:	(404) 955-4736		
Pipe Flag:	True		
Reserve Flag:	True		
Legal Agent:	C.T. CORPORATION		
	277 PARK AVENUE		
	NEW YORK, NY 10017		
Date Legal Agent Filed with Secretary of State:	07/76		
Name of Emergency Contact:	J.J. ROGERS		
Emergency Contact Telephone:	(718) 383-4066		
Chemical Bulk Storage Number:	1-000380		
Pollution Discharge Elimination System Num:	0-006190		
License Status:	License Pending		
Date License Application Received:	01/11/1991		
Date License Issued:	04/02/1990		
Product Transfer Operation:	Vessel/Barge (Including off-shore platform)		
Operator Name:	M.A. D'ANTONIO		
Lat/Long:	40 37 00 / 73 45 30		
Vessel ID:	Not reported		
Inspected State:	Not reported		
Inspected Date:	/ /		
Owner Status:	1		
Owner Mark:	1		
LIC Expires:	03/31/1991		
Renew Date:	11/21/1990		
Inspector Initials:	Not reported		
COI Date:	/ /		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL COMPANY (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S102633434**

The NY AST MOSF database contains 7 additional records for this site.  
Please contact your EDR Account Executive for more information.

**J34  
NNW  
1/4-1/2  
1868 ft.  
Higher**

**SHELL OIL FACILITY  
20 ROGER AVENUE  
INWOOD, NY  
  
Site 2 of 3 in cluster J**

**LTANKS S100172892  
N/A**

**LTANKS:**

Spill Number:	8807783	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	T/T/F	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	(516) 239-4437
Spiller:	SHELL OIL FACILITY		
Spiller Address:	20 ROGER AVENUE INWOOD, NY 11696		
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	06/29/1993		
Spill Cause:	Tank Test Failure	Resource Affected:	Groundwater
Water Affected:	Not reported	Spill Source:	Major Facility 400,000 gallons
Spill Notifier:	Tank Tester	PBS Number:	Not reported
Spill Date:	12/06/1988 12:00	Reported to Dept:	12/23/1988 09:00
Cleanup Ceased:	06/29/1993		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	07/02/1993		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	12/27/1988		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	0		
Leak Rate Failed Tank:	0.00		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	0		
Units:	Gallons		
Unknown Qty Spilled:	No		
Quantity Recovered:	0		
Unknown Qty Recovered:	False		
Material:	WASTE OIL		
Class Type:	Petroleum		
Chem Abstract Service Number:	WASTE OIL		
Last Date:	09/27/1994		



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL FACILITY (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S100172892**

Num Times Material Entry In File: 9509  
DEC Remarks: 06/29/93: SAME AS 80-0770.  
Spill Cause: 4K FAILED AT -.100. DAILEY EQUIP TESTER. RETESTED TANK ALONE PASSED. R  
EPAIRS TO LINES IN SPRING TANK OUT

**J35  
NNW  
1/4-1/2  
1868 ft.  
Higher**

**SHELL OIL  
20 ROGER AVENUE  
INWOOD, NY**

**LTANKS S102619871  
NY Spills N/A**

**Site 3 of 3 in cluster J**

**SPILLS:**

Spill Number:	8902769	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	MAYTROT	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported

Spiller: SHELL OIL

Spiller Address: Not reported

Spill Class: Not reported

Spill Closed Dt: 10/18/1990

Spill Cause: Other

Water Affected: Not reported

Spill Notifier: Health Department

Spill Date: 06/13/1989 12:00

Cleanup Ceased: 10/18/1990

Last Inspection: Not reported

Cleanup Meets Standard: True

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: Not reported

Enforcement Date: Not reported

Investigation Complete: Not reported

UST Involvement: False

Spill Record Last Update: 10/23/1990

Is Updated: False

Corrective Action Plan Submitted: Not reported

Date Spill Entered In Computer Data File: 06/20/1989

Date Region Sent Summary to Central Office: Not reported

**Tank Test:**

PBS Number: Not reported

Tank Number: Not reported

Test Method: Not reported

Capacity of Failed Tank: Not reported

Leak Rate Failed Tank: Not reported

Gross Leak Rate: Not reported

**Material:**

Material Class Type: 1

Quantity Spilled: 0

Units: Gallons

Unknown Qty Spilled: No

Quantity Recovered: 0

Unknown Qty Recovered: False

Material: WASTE OIL

Class Type: Petroleum

Chem Abstract Service Number: WASTE OIL

Last Date: 09/27/1994

Resource Affected: On Land

Spill Source: Other Commercial/Industrial

PBS Number: Not reported

Reported to Dept: 06/16/1989 09:00

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SHELL OIL (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**S102619871**

Num Times Material Entry In File: 9509

Remark: CONT SOIL ENCOUNTERED DURING TANK REMOVAL. ONE WELL WILL BE INSTALLED AS PER NCDH REQUEST. 7 YDS OF CONT SOIL TO BE DISPOSED

DEC Remarks: Not reported

This is the most recent NY SPILLS record for this site.  
The NY SPILLS database contains 1 additional record for this site.  
Please contact your EDR Account Executive for more information.

**LTANKS:**

Spill Number:	8703454	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	HOFMANN WELL	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported

Spiller: SHELL OIL  
Spiller Address: 20 ROGER AVENUE  
INWOOD

Spill Class: Not reported  
Spill Closed Dt: 12/05/1991  
Spill Cause: Tank Overfill  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Spill Date: 07/27/1987 20:45

Resource Affected: Air  
Spill Source: Major Facility 400,000 gallons  
PBS Number: Not reported  
Reported to Dept: 07/28/1987 13:45

Cleanup Ceased: 12/05/1991  
Last Inspection: Not reported  
Cleanup Meets Standard: True  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 07/07/1997  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 07/31/1987  
Date Region Sent Summary to Central Office: Not reported

**Tank Test:**

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

**Material:**

Material Class Type: 1  
Quantity Spilled: 912  
Units: Gallons  
Unknown Qty Spilled: 912  
Quantity Recovered: 0  
Unknown Qty Recovered: False  
Material: GASOLINE  
Class Type: Petroleum  
Chem Abstract Service Number: GASOLINE  
Last Date: 09/29/1994

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**SHELL OIL (Continued)**

**S102619871**

Num Times Material Entry In File: 21329  
DEC Remarks: Not reported  
Spill Cause: BILL MINAR REC D CALL. NO OFF SITE IMPACT EXCEPT SOURCE.

Spill Number: 8904769                      Region of Spill: 1  
Facility Contact: Not reported              Facility Tele: Not reported  
Investigator: MAYTROT      FD              SWIS: 28  
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  
Spiller Contact: Not reported                  Spiller Phone: (516) 239-4437  
Spiller: SHELL  
Spiller Address: 20 ROGER AVENUE  
                         INWOOD, NY

Spill Class: Not reported  
Spill Closed Dt: 08/18/1989  
Spill Cause: Tank Overfill                      Resource Affected: On Land  
Water Affected: Not reported                  Spill Source: Other Non Commercial/Industrial  
Spill Notifier: Responsible Party              PBS Number: Not reported  
Spill Date: 08/14/1989 10:45                  Reported to Dept: 08/14/1989 11:00  
Cleanup Ceased: 08/18/1989  
Last Inspection: Not reported  
Cleanup Meets Standard: True  
Recommended Penalty: Penalty Not Recommended  
Spiller Cleanup Date: Not reported  
Enforcement Date: Not reported  
Investigation Complete: Not reported  
UST Involvement: False  
Spill Record Last Update: 05/19/1999  
Is Updated: False  
Corrective Action Plan Submitted: Not reported  
Date Spill Entered In Computer Data File: 08/15/1989  
Date Region Sent Summary to Central Office: Not reported  
Tank Test:  
    PBS Number: Not reported  
    Tank Number: Not reported  
    Test Method: Not reported  
    Capacity of Failed Tank: Not reported  
    Leak Rate Failed Tank: Not reported  
    Gross Leak Rate: Not reported

Material:  
    Material Class Type: 1  
    Quantity Spilled: 15  
    Units: Gallons  
    Unknown Qty Spilled: 15  
    Quantity Recovered: 0  
    Unknown Qty Recovered: False  
    Material: GASOLINE  
    Class Type: Petroleum  
    Chem Abstract Service Number: GASOLINE  
    Last Date: 09/29/1994  
    Num Times Material Entry In File: 21329  
DEC Remarks: 08/18/89: NO EVIDENCE OF ANY PRODUCT REMAINING FROM SPILL.  
Spill Cause: CONTAINED IN RECOVERY SYSTEM AT LOADING DOCK,THEY RECOVERED ALL 0 PROD  
                         UCT LOST. FAILURE OF TRUCK/OVERFLOW-MALFUNCTION. ABSORBANTS USED, SEPERA  
                         TOR SYSTEM. NO DEC RESPONSE NEEDED

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

36  
SE  
1/4-1/2  
1959 ft.  
Higher

717 ELMONT RD  
717 ELMONT RD  
FAR ROCKAWAY, NY

LTANKS  
S100493839  
N/A

LTANKS:

Spill Number:	9205194	Region of Spill:	2
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	TANG	SWIS:	63
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	Not reported		
Spiller Address:	Not reported		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	03/30/1995		
Spill Cause:	Tank Failure	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Private Dwelling
Spill Notifier:	Other	PBS Number:	Not reported
Spill Date:	07/30/1992 12:00	Reported to Dept:	08/05/1992 16:00
Cleanup Ceased:	03/30/1995		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	03/30/1995		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	08/10/1992		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		

Material:

Material Class Type:	1
Quantity Spilled:	50
Units:	Gallons
Unknown Qty Spilled:	50
Quantity Recovered:	0
Unknown Qty Recovered:	False
Material:	#2 FUEL OIL
Class Type:	Petroleum
Chem Abstract Service Number:	#2 FUEL OIL
Last Date:	12/07/1994
Num Times Material Entry In File:	24464

DEC Remarks: Not reported

Spill Cause: FUEL ON CONCRETE BASEMENT FLOOR AND SUMP PUMP. EMERG SVCS TO APPLY SORBENT, CLEAN SUMP PUMP POWER WASH FLOOR.

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**37**  
**West**  
**1/4-1/2**  
**2096 ft.**  
**Higher**

**11-41 MCBRIDE ST**  
**11041 MCBRIDE ST**  
**FAR ROCKAWAY, NY**

**LTANKS** **S102672840**  
**N/A**

LTANKS:

Spill Number:	9415199	Region of Spill:	2
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	ENGELHARDT	SWIS:	63
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
Spiller Contact:	Not reported	Spiller Phone:	(718) 932-9075
Spiller:	MYSTIC TRANSPORTATION		
Spiller Address:	19001 STEINWAY ST ASTORIA, NY 11105		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	Not reported		
Spill Cause:	Tank Overfill	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party	PBS Number:	Not reported
Spill Date:	02/20/1995 12:50	Reported to Dept:	02/20/1995 12:59
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	07/05/1995		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	03/27/1995		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	10		
Units:	Gallons		
Unknown Qty Spilled:	10		
Quantity Recovered:	0		
Unknown Qty Recovered:	False		
Material:	#4 FUEL OIL		
Class Type:	Petroleum		
Chem Abstract Service Number:	#4 FUEL OIL		
Last Date:	12/05/1994		
Num Times Material Entry In File:	1751		
DEC Remarks:	Not reported		
Spill Cause:	SPILLEED THROUGH VENT LINE - SPILL CREW ON WAY		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**K38**  
**NNW**  
**1/4-1/2**  
**2118 ft.**

**RGR/DNEPR**  
**213 SHERIDAN BLVD**  
**INWOOD, NY**

**LTANKS**  
**NY Spills**

**S100171180**  
**N/A**

**Higher**      **Site 1 of 2 in cluster K**

**SPILLS:**

Spill Number:	8504412	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	YAGER WELL	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	PETRO KING S/S		
Spiller Address:	213 SHERIDAN BLVD INWOOD		
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	Not reported		
Spill Cause:	3	Resource Affected:	Groundwater
Water Affected:	Not reported	Spill Source:	Not reported
Spill Notifier:	Not reported	PBS Number:	Not reported
Spill Date:	03/10/1986 12:00	Reported to Dept:	Not reported
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	09/27/2001		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	Not reported		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	0		
Units:	Gallons		
Unknown Qty Spilled:	No		
Quantity Recovered:	0		
Unknown Qty Recovered:	False		
Material:	GASOLINE		
Class Type:	Petroleum		
Chem Abstract Service Number:	GASOLINE		
Last Date:	09/29/1994		
Num Times Material Entry In File:	21329		
Remarks:	Not reported		
DEC Remarks:	Not reported		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

RGR/DNEPR (Continued)

S100171180

LTANKS:

Spill Number:	8504380	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	O'Brien	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	RGR/DNEPR		
Spiller Address:	Not reported		
Spill Class:	Not reported		
Spill Closed Dt:	12/23/1986		
Spill Cause:	Tank Overfill	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Tank Truck
Spill Notifier:	Local Agency	PBS Number:	Not reported
Spill Date:	03/10/1986 08:10	Reported to Dept:	03/10/1986 08:30
Cleanup Ceased:	12/23/1986		
Last Inspection:	19860310		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	12/14/1997		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	06/18/1986		
Date Region Sent Summary to Central Office:	03/19/1992		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	86		
Units:	Pounds		
Unknown Qty Spilled:	86		
Quantity Recovered:	86		
Unknown Qty Recovered:	False		
Material:	GASOLINE		
Class Type:	Petroleum		
Chem Abstract Service Number:	GASOLINE		
Last Date:	09/29/1994		
Num Times Material Entry In File:	21329		
Spill Cause:	OVERFILL OF TANK. THIS COMPANY HAS HAD A NUMBER OF SPILLS. PROVISIONAL EPA ID NYP000860841 MATERIALS FROM 8600030 AND 8601310 ALSO DISPOSED UNDER THIS EPA NUMBER???)		

The LTANKS database contains additional information for this site.  
Please contact your EDR Account Executive for more information.

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**K39  
NNW  
1/4-1/2  
2118 ft.  
Higher**

**GAS STATION  
213 SHERIDAN BLVD  
INWOOD, NY**

**LTANKS S103238711  
N/A**

**Site 2 of 2 in cluster K**

LTANKS:

Spill Number:	9800700	Region of Spill:	1
Facility Contact:	JOSE	Facility Tele:	(516) 371-2135
Investigator:	PARISH WELL	SWIS:	28
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
Spiller Contact:	MIKE PLANT	Spiller Phone:	(516) 845-1103
Spiller:	123 F REALTY		
Spiller Address:	PO BOX 3269		
	FARMINGDALE, NY		

Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Spill Closed Dt:	Not reported	Resource Affected:	Groundwater
Spill Cause:	Tank Failure	Spill Source:	Gas Station
Water Affected:	Not reported	PBS Number:	Not reported
Spill Notifier:	Tank Tester	Reported to Dept:	04/16/1998 12:30
Spill Date:	04/16/1998 12:30		

Cleanup Ceased: Not reported

Last Inspection: Not reported

Cleanup Meets Standard: False

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: Not reported

Enforcement Date: Not reported

Investigation Complete: Not reported

UST Involvement: True

Spill Record Last Update: 05/27/1998

Is Updated: False

Corrective Action Plan Submitted: Not reported

Date Spill Entered In Computer Data File: 04/16/1998

Date Region Sent Summary to Central Office: Not reported

Tank Test:

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

Material:

Material Class Type:	1
Quantity Spilled:	0
Units:	Gallons
Unknown Qty Spilled:	No
Quantity Recovered:	0
Unknown Qty Recovered:	False
Material:	GASOLINE
Class Type:	Petroleum
Chem Abstract Service Number:	GASOLINE
Last Date:	09/29/1994
Num Times Material Entry In File:	21329

DEC Remarks: Not reported

Spill Cause: LEAK APPEARS TO BE IN VENT PIPE / FIRE MARSHALL ON SCENE / TANK WILL BE



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation     Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**GAS STATION (Continued)**

**S103238711**

PUMPED OUT / TANK WILL BE UNCOVERED ON 4/20/98    RETESTED.

**40  
SW  
1/4-1/2  
2201 ft.  
Higher**

**115-05 BEACH CHANNEL DR  
115-05 BEACH CHANNEL DRIV  
QUEENS, NY**

**LTANKS    S102233272  
N/A**

**LTANKS:**

Spill Number:	9513259	Region of Spill:	2
Facility Contact:	Not reported	Facility Tele:	( ) -
Investigator:	TOMASELLO	SWIS:	63
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	Not reported		
Spiller Address:	114-13 BEACH CHANNEL DRIV QUEENS, NY		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	Not reported		
Spill Cause:	Tank Failure	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Spill Notifier:	Local Agency	PBS Number:	Not reported
Spill Date:	01/20/1996 12:00	Reported to Dept:	01/22/1996 14:46
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	02/05/1996		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	01/22/1996		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	0		
Units:	Gallons		
Unknown Qty Spilled:	No		
Quantity Recovered:	0		
Unknown Qty Recovered:	False		
Material:	WASTE OIL		
Class Type:	Petroleum		
Chem Abstract Service Number:	WASTE OIL		
Last Date:	09/27/1994		
Num Times Material Entry In File:	9509		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

115-05 BEACH CHANNEL DR (Continued)

S102233272

DEC Remarks: CALLED DEP HAZMAT, NOT AN EMERGENCY, JUST NEED FOLLOW UP, DEP HAS NO ON  
ETO SEND.  
Spill Cause: LEAK FROM 200 GALLON WASTE OIL TANK IN FRONT OF LOCATION. UNKNOWN AMOUN  
T SO FAR. HAZ-MAT BEING NOTIFIED AS WELL.

41  
ESE  
1/4-1/2  
2593 ft.  
Higher

DIBENSKI RESIDENCE  
6 FOREST LANE  
LAWRENCE, NY

LTANKS S100492741  
N/A

LTANKS:

Spill Number:	9300103	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	T/T/F	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	DIBENSKI RESIDENCE		
Spiller Address:	Not reported		
Spill Class:	No spill occurred. (Not Possible)		
Spill Closed Dt:	04/26/1993		
Spill Cause:	Tank Failure	Resource Affected:	Groundwater
Water Affected:	Not reported	Spill Source:	Private Dwelling
Spill Notifier:	Tank Tester	PBS Number:	Not reported
Spill Date:	04/02/1993 11:40	Reported to Dept:	04/02/1993 12:06
Cleanup Ceased:	04/26/1993		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	09/13/1995		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	04/05/1993		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	0		
Units:	Gallons		
Unknown Qty Spilled:	No		
Quantity Recovered:	0		
Unknown Qty Recovered:	False		
Material:	#2 FUEL OIL		
Class Type:	Petroleum		
Chem Abstract Service Number:	#2 FUEL OIL		
Last Date:	12/07/1994		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

**DIBENSKI RESIDENCE (Continued)**

**S100492741**

Num Times Material Entry In File: 24464  
DEC Remarks: 04/26/93: TANK UNABLE TO BE TESTED, 4/2/93 DUE TO GROSS LEAK, PATTERSON  
REPAIRED VENT WITHOUT UNCOVERING TANK. TANK SYSTEM PASSED RETEST 4/16/93  
Spill Cause: TANK TESTED FOR PRE SALE, 550 FAILED GROSS LEAK, ANS TESTER, NO ACTION Y  
ET DETERMINED

**42  
ESE  
1/4-1/2  
2622 ft.  
Higher**

**RESIDENCE  
17 BEECHWOOD DRIVE  
LAWRENCE, NY**

**LTANKS    S102670527  
N/A**

**LTANKS:**

Spill Number:	9415809	Region of Spill:	1
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	MATTHEWS	SWIS:	28
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
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	COMMANDER		
Spiller Address:	Not reported		
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	09/14/1995		
Spill Cause:	Tank Overfill	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party	PBS Number:	Not reported
Spill Date:	03/07/1995 09:15	Reported to Dept:	03/07/1995 09:19
Cleanup Ceased:	09/14/1995		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	02/09/2001		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	03/08/1995		
Date Region Sent Summary to Central Office:	Not reported		
Tank Test:			
PBS Number:	Not reported		
Tank Number:	Not reported		
Test Method:	Not reported		
Capacity of Failed Tank:	Not reported		
Leak Rate Failed Tank:	Not reported		
Gross Leak Rate:	Not reported		
Material:			
Material Class Type:	1		
Quantity Spilled:	2		
Units:	Gallons		
Unknown Qty Spilled:	2		
Quantity Recovered:	0		
Unknown Qty Recovered:	False		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

RESIDENCE (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S102670527

Material: #2 FUEL OIL  
Class Type: Petroleum  
Chem Abstract Service Number: #2 FUEL OIL  
Last Date: 12/07/1994  
Num Times Material Entry In File: 24464  
DEC Remarks: / / : AT KAPLAN RESIDENCE.  
Spill Cause: MILRO GOING TO CLEANUP

43  
North  
1/2-1  
4031 ft.  
Higher

525 TO 535 BURNSIDE AVENUE  
525-535 BURNSIDE AVENUE  
INWOOD, NY 11096

SHWS S105586280  
N/A

SHWS:

EPA ID: Not reported  
Acres: 0.32  
Owner: Martin J. Ain  
535 Burnside Avenue  
Inwood, NY 110  
Owner Type: OW  
Operator: unknown  
Operator Type: OP  
Classification: SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION  
REQUIRED.

Region: 1  
User: unknown

Depth to Groundwater: Range: 1 to 5 feet.  
Legal Action Type: Not reported  
Legal NY State: Not reported  
Legal Federal: Not reported  
Legal state: Not reported  
Facility ID Number: 130091  
Dump: Not reported  
Pond: Not reported  
Structure: Yes  
Lagoon: Not reported  
Landfill: Not reported  
Lat/Long: 40° 37' 22" / 73° 44' 43"  
Disposal Start: unknown  
Disposal Term: unknown  
Air Data: Not reported  
Air Violation: Not reported  
Ground Water Data: Yes  
Surface Water Data: Not reported  
SW Violation: Not reported  
Sediment Data: Not reported  
Soil Data: Not reported  
Soil Type: Sand and gravel.  
Remediation Proposed: Not reported  
Remediation Active: Not reported  
Remediation Design: Not reported  
Remediation Type: Not reported  
Quantity: unknown  
NPL Status: ---  
Hazardous Waste: trichloroethene (F002 Waste)  
Site Description: This site contains three businesses; Ojay Collision Works ( a one story  
auto repair shop), Auto DCAP (a one story office building, and Five  
Town Tire ( a one story tire dealer and repair shop). In July 1997,  
The Nassau County Department of Health notified the NYSDEC that a  
sample collected from Nassau County Public Works Monitoring Well,

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

525 TO 535 BURNSIDE AVENUE (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S105586280

Environmental Problems:

Health Problems:

N-09468, (located on the NW corner of Wheelock & Burnside Avenues) contained trichloroethene (TCE) at 3,309 ppb, total 1,2-dichloroethene (1,2-DCE) at 2,771ppb, and vinyl chloride at 444 ppb. Subsequent to this notification, the NYSDEC initiated a Preliminary Site Assessment (PSA). This PSA was conducted between June and August 1999. The PSA concluded that the source of TCE and 1,2-DCE is located along the north side of Burnside Avenue between Wheelock Avenue and Hoover Street. Past site operations have contaminated the groundwater with TCE and 1,2-DCE at concentrations well above their respective Part 703.5 Class GA Standards. The groundwater is part of an EPA-designated sole source aquifer, and the contamination of this aquifer constitutes a significant threat to the environment.

Past site operations have contaminated the groundwater with TCE and 1,2-DCE at concentrations well above their respective Part 703.5 Class GA Standards. The groundwater is part of an EPA-designated sole source aquifer.

The area is mixed residential and commercial, with residences north and south of the site. Groundwater flows east, northeast and is four feet deep. Public water serves the area and is regularly monitored. Therefore, exposure to contaminated groundwater is not expected. All other potential exposure routes will be assessed during the forthcoming investigation.

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
EDGEEMERE	S104323991	LILCO - EDGEEMERE SUBSTATION	BEACH 62ND STREET AND ROCKAWAY BEACH BLVD.	11691	VCP
FAR ROCKAWAY	S103484630	ROCKAWAY MARINA	72ND ST		NY Spills
FAR ROCKAWAY	1004758336	CHANNEL BREEZE CLEANERS	366-02 BEACH 54TH ST	11691	RCRIS-SQG, FINDS
FAR ROCKAWAY	S102141415	BEACH 63RD/ALAMEDA/MORRIS	BEACH 63RD/ALAMEDA/MORRIS		NY Spills
FAR ROCKAWAY	S102143050	BEACH 19TH ST/ST JOHNS	BEACH 19TH ST/HOSPITAL		NY Spills
FAR ROCKAWAY	S102143010	BEACH 96TH STREET	BEACH 96TH STREET		NY Spills
FAR ROCKAWAY	S102148594	BEACH 9TH STREET	BEACH 9TH STREET		NY Spills
FAR ROCKAWAY	S102148764	BEACH 17TH ST & SIGERT ST	BEACH 17TH ST / SIGERT ST		NY Spills
FAR ROCKAWAY	S104877158		180 BEACH 117 ST		LTANKS
FAR ROCKAWAY	S104951598		BEACH 68TH ST / ALMEDAN		NY Spills
FAR ROCKAWAY	S104952864	OCEANVIEW NURSING HOME	BEACH 9TH ST+MEENAN AVE		NY Spills
FAR ROCKAWAY	S102663212	LAND	BEACH 116TH / CHANNEL DR		NY Spills
FAR ROCKAWAY	S103274032	POLE 7	BEACH 17TH STREET		NY Spills
FAR ROCKAWAY	S103483834	MANHOLE 30277	BEACH 21ST ST		NY Spills
FAR ROCKAWAY	871467	FAR ROCKAWAY GENERATOR PLANT BAY 24TH ST	FAR ROCKAWAY GENERATOR PLANT BAY 24T		ERNS
FAR ROCKAWAY	S104562113	EDGEEMERE RECYC.	HANDLING / BEACH CHANNEL DR. & 49TH		SWRCY
FAR ROCKAWAY	S102142828	LIRR/INWOOD STA/REDFERN	LIRR/INWOOD STA/REDFERN		NY Spills
FAR ROCKAWAY	1004762482	ROYAL INFLITE SERVICE LLC	1107 REDFERN AVE	11691	RCRIS-SQG, FINDS
FAR ROCKAWAY	8712906	EAST ROCKAWAY INLET	EAST ROCKAWAY INLET		ERNS
FAR ROCKAWAY	S102962007	BEACH 87TH ST	ROCKAWAY BEACH BLVD		NY Spills
FAR ROCKAWAY	S104879792		216 ROCKAWAY BEACH BL		NY Spills
FAR ROCKAWAY (QUEEN:	G000000443	HEMPSTEAD GAS & ELECTRIC LIGHT CO.	110 BRUNSWICK AVE. ??	11691	Coal Gas
INWOOD	S102135384	LILCO	DOUGHTY BLVD	11096	NY Spills
INWOOD	S102138321	UNK LI TRUCKING	DOUGHTY BLVD	11096	LTANKS, NY Spills
INWOOD	S103828279	PUMP STATION	DOUGHTY BLVD	11096	NY Spills
INWOOD	S103829502	INWOOD TERMINAL	DOUGHTY BLVD	11096	NY Spills
INWOOD	S104783726	UNK	DOUGHTY BLVD	11096	NY Spills
INWOOD	S104784607	UNK	DOUGHTY BLVD	11096	NY Spills
LAWRENCE	U003847381	NC ATLANTIC BEACH BRIDGE AUTHORITY	DOUGHTY BLVD	11559	UST
LAWRENCE	1004760616	NASSAU COUNTY BRIDGE AUTH	END OF RTE 878 NASSAU EXPWY	11559	RCRIS-SQG, FINDS
QUEENS	1001489112	NYC DEPT OF PARKS & RECREATION	BEACH 75TH ST & BEACH 4	11691	RCRIS-SQG, FINDS

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Elapsed ASTM days:** Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

## **FEDERAL ASTM STANDARD RECORDS**

### **NPL: National Priority List**

Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/18/02

Date Made Active at EDR: 09/20/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/01/02

Elapsed ASTM days: 50

Date of Last EDR Contact: 11/04/02

### **NPL Site Boundaries**

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 6

Telephone: 214-655-6659

EPA Region 3

Telephone 215-814-5418

EPA Region 8

Telephone: 303-312-6774

EPA Region 4

Telephone 404-562-8033

### **Proposed NPL: Proposed National Priority List Sites**

Source: EPA

Telephone: N/A

Date of Government Version: 05/29/02

Date Made Active at EDR: 09/20/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/01/02

Elapsed ASTM days: 50

Date of Last EDR Contact: 11/04/02

### **CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System**

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/15/02

Date Made Active at EDR: 10/28/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/23/02

Elapsed ASTM days: 35

Date of Last EDR Contact: 09/23/02

### **CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned**

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/15/02  
Date Made Active at EDR: 10/28/02  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 10/03/02  
Elapsed ASTM days: 25  
Date of Last EDR Contact: 09/23/02

### **CORRACTS:** Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/02/02  
Date Made Active at EDR: 07/15/02  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02  
Elapsed ASTM days: 70  
Date of Last EDR Contact: 09/09/02

### **RCRIS:** Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 09/09/02  
Date Made Active at EDR: 10/28/02  
Database Release Frequency: Varies

Date of Data Arrival at EDR: 09/24/02  
Elapsed ASTM days: 34  
Date of Last EDR Contact: 09/24/02

### **ERNS:** Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/01  
Date Made Active at EDR: 07/15/02  
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/02/02  
Elapsed ASTM days: 13  
Date of Last EDR Contact: 10/28/02

### **FEDERAL ASTM SUPPLEMENTAL RECORDS**

#### **BRS:** Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/99  
Database Release Frequency: Biennially

Date of Last EDR Contact: 09/16/02  
Date of Next Scheduled EDR Contact: 12/16/02

#### **CONSENT:** Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A  
Database Release Frequency: Varies

Date of Last EDR Contact: N/A  
Date of Next Scheduled EDR Contact: N/A

#### **ROD:** Records Of Decision

Source: EPA

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/21/01  
Database Release Frequency: Annually

Date of Last EDR Contact: 10/07/02  
Date of Next Scheduled EDR Contact: 01/06/03

### **DELISTED NPL:** National Priority List Deletions

Source: EPA  
Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/18/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/04/02  
Date of Next Scheduled EDR Contact: 02/03/03

### **FINDS:** Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA  
Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 06/13/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/07/02  
Date of Next Scheduled EDR Contact: 01/06/03

### **HMIRS:** Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation  
Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 05/31/02  
Database Release Frequency: Annually

Date of Last EDR Contact: 10/21/02  
Date of Next Scheduled EDR Contact: 01/20/03

### **MLTS:** Material Licensing Tracking System

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/12/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/08/02  
Date of Next Scheduled EDR Contact: 01/06/03

### **MINES:** Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959

Date of Government Version: 09/10/02  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/30/02  
Date of Next Scheduled EDR Contact: 12/30/02

### **NPL LIENS:** Federal Superfund Liens

Source: EPA  
Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91  
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 08/26/02  
Date of Next Scheduled EDR Contact: 11/25/02

**PADS:** PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/28/02  
Database Release Frequency: Annually

Date of Last EDR Contact: 11/13/02  
Date of Next Scheduled EDR Contact: 02/10/03

**RAATS:** RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95  
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 09/10/02  
Date of Next Scheduled EDR Contact: 12/09/02

**TRIS:** Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/00  
Database Release Frequency: Annually

Date of Last EDR Contact: 09/24/02  
Date of Next Scheduled EDR Contact: 12/23/02

**TSCA:** Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98  
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 09/09/02  
Date of Next Scheduled EDR Contact: 12/09/02

**FTTS INSP:** FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 04/25/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/24/02  
Date of Next Scheduled EDR Contact: 12/23/02

**SSTS:** Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/00  
Database Release Frequency: Annually

Date of Last EDR Contact: 10/22/02  
Date of Next Scheduled EDR Contact: 01/20/03

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **FTTS:** FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/25/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/24/02

Date of Next Scheduled EDR Contact: 12/23/02

### **STATE OF NEW YORK ASTM STANDARD RECORDS**

#### **SHWS:** Inactive Hazardous Waste Disposal Sites in New York State

Source: Department of Environmental Conservation

Telephone: 518-402-9553

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/01/02

Date Made Active at EDR: 11/12/02

Database Release Frequency: Annually

Date of Data Arrival at EDR: 10/22/02

Elapsed ASTM days: 21

Date of Last EDR Contact: 11/25/02

#### **SWF/LF:** Facility Register

Source: Department of Environmental Conservation

Telephone: 518-457-2051

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/31/01

Date Made Active at EDR: 04/18/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/28/02

Elapsed ASTM days: 21

Date of Last EDR Contact: 11/05/02

#### **LTANKS:** Spills Information Database

Source: Department of Environmental Conservation

Telephone: 518-402-9549

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 01/01/02

Date Made Active at EDR: 03/22/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/20/02

Elapsed ASTM days: 30

Date of Last EDR Contact: 10/29/02

#### **UST:** Petroleum Bulk Storage (PBS) Database

Source: Department of Environmental Conservation

Telephone: 518-402-9549

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 01/01/02

Date Made Active at EDR: 03/22/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/20/02

Elapsed ASTM days: 30

Date of Last EDR Contact: 10/29/02

#### **CBS UST:** Chemical Bulk Storage Database

Source: NYSDEC

Telephone: 518-402-9549

Facilities that store regulated hazardous substances in underground tanks of any size

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/02  
Date Made Active at EDR: 03/22/02  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/20/02  
Elapsed ASTM days: 30  
Date of Last EDR Contact: 10/29/02

### **MOSF UST:** Major Oil Storage Facilities Database

Source: NYSDEC

Telephone: 518-402-9549

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/02  
Date Made Active at EDR: 03/22/02  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/20/02  
Elapsed ASTM days: 30  
Date of Last EDR Contact: 10/29/02

### **VCP:** Voluntary Cleanup Agreements

Source: Department of Environmental Conservation

Telephone: 518-402-9711

The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

Date of Government Version: 09/27/02  
Date Made Active at EDR: 10/30/02  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 09/30/02  
Elapsed ASTM days: 30  
Date of Last EDR Contact: 09/17/02

### **SWRCY:** Registered Recycling Facility List

Source: Department of Environmental Conservation

Telephone: 518-402-8705

A listing of recycling facilities.

Date of Government Version: 07/17/00  
Date Made Active at EDR: 09/13/00  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/24/00  
Elapsed ASTM days: 20  
Date of Last EDR Contact: 11/21/02

### **SWTIRE:** Registered Waste Tire Storage & Facility List

Source: Department of Environmental Conservation

Telephone: 518-402-8694

Date of Government Version: 09/01/01  
Date Made Active at EDR: 11/30/01  
Database Release Frequency: Annually

Date of Data Arrival at EDR: 11/19/01  
Elapsed ASTM days: 11  
Date of Last EDR Contact: 11/20/02

## **STATE OF NEW YORK ASTM SUPPLEMENTAL RECORDS**

### **HSWDS:** Hazardous Substance Waste Disposal Site Inventory

Source: Department of Environmental Conservation

Telephone: 518-402-9564

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-registry sites which U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared.

Date of Government Version: 09/01/02  
Database Release Frequency: Annually

Date of Last EDR Contact: 09/04/02  
Date of Next Scheduled EDR Contact: 12/02/02

### **AST:** Petroleum Bulk Storage

Source: Department of Environmental Conservation

Telephone: 518-402-9549

Registered Aboveground Storage Tanks.

Date of Government Version: 01/01/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/29/02  
Date of Next Scheduled EDR Contact: 01/27/03

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **CBS AST:** Chemical Bulk Storage Database

Source: NYSDEC

Telephone: 518-402-9549

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/29/02

Date of Next Scheduled EDR Contact: 01/27/03

### **MOSF AST:** Major Oil Storage Facilities Database

Source: NYSDEC

Telephone: 518-402-9549

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/29/02

Date of Next Scheduled EDR Contact: 01/27/03

### **SPILLS:** Spills Information Database

Source: Department of Environmental Conservation

Telephone: 518-402-9549

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 01/01/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/29/02

Date of Next Scheduled EDR Contact: 01/27/03

### **MANIFEST:** Facility and Manifest Data

Source: Department of Environmental Conservation

Telephone: 518-402-8651

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 04/01/02

Database Release Frequency: Annually

Date of Last EDR Contact: 09/04/02

Date of Next Scheduled EDR Contact: 12/02/02

## **LOCAL RECORDS**

### **CORTLAND COUNTY:**

#### **Cortland County Storage Tank Listing**

Source: Cortland County Health Department

Telephone: 607-753-5035

Date of Government Version: 01/02/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/04/02

Date of Next Scheduled EDR Contact: 12/02/02

#### **Cortland County Storage Tank Listing**

Source: Cortland County Health Department

Telephone: 607-753-5035

Date of Government Version: 01/02/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/04/02

Date of Next Scheduled EDR Contact: 12/02/02

### **NASSAU COUNTY:**

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Registered Tank Database

Source: Nassau County Health Department  
Telephone: 516-571-3314

Date of Government Version: 08/13/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/01/02  
Date of Next Scheduled EDR Contact: 02/03/03

### Registered Tank Database

Source: Nassau County Health Department  
Telephone: 516-571-3314

Date of Government Version: 08/13/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/01/02  
Date of Next Scheduled EDR Contact: 02/03/03

### Storage Tank Database

Source: Nassau County Office of the Fire Marshal  
Telephone: 516-572-1000

Date of Government Version: N/A  
Database Release Frequency: Varies

Date of Last EDR Contact: N/A  
Date of Next Scheduled EDR Contact: N/A

### Storage Tank Database

Source: Nassau County Office of the Fire Marshal  
Telephone: 516-572-1000

Date of Government Version: 02/19/02  
Database Release Frequency: Varies

Date of Last EDR Contact: 11/22/02  
Date of Next Scheduled EDR Contact: 02/10/03

### ROCKLAND COUNTY:

#### Petroleum Bulk Storage Database

Source: Rockland County Health Department  
Telephone: 914-364-2605

Date of Government Version: 10/24/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/08/02  
Date of Next Scheduled EDR Contact: 01/06/03

#### Petroleum Bulk Storage Database

Source: Rockland County Health Department  
Telephone: 914-364-2605

Date of Government Version: 10/24/02  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/08/02  
Date of Next Scheduled EDR Contact: 01/06/03

### SUFFOLK COUNTY:

#### Storage Tank Database

Source: Suffolk County Department of Health Services  
Telephone: 631-854-2521

Date of Government Version: 12/31/01  
Database Release Frequency: Annually

Date of Last EDR Contact: 09/10/02  
Date of Next Scheduled EDR Contact: 12/02/02

#### Storage Tank Database

Source: Suffolk County Department of Health Services  
Telephone: 631-854-2521

Date of Government Version: 12/31/01  
Database Release Frequency: Annually

Date of Last EDR Contact: 09/10/02  
Date of Next Scheduled EDR Contact: 12/02/02

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WESTCHESTER COUNTY:

### Listing of Storage Tanks

Source: Westchester County Department of Health

Telephone: 914-813-5161

Listing of underground storage tanks in Westchester County.

Date of Government Version: 06/01/02

Database Release Frequency: Varies

Date of Last EDR Contact: 09/04/02

Date of Next Scheduled EDR Contact: 12/02/02

### Listing of Storage Tanks

Source: Westchester County Department of Health

Telephone: 914-813-5161

Listing of aboveground storage tanks in Westchester County.

Date of Government Version: 06/01/02

Database Release Frequency: Varies

Date of Last EDR Contact: 09/04/02

Date of Next Scheduled EDR Contact: 12/02/02

## EDR PROPRIETARY HISTORICAL DATABASES

**Former Manufactured Gas (Coal Gas) Sites:** The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

### **Disclaimer Provided by Real Property Scan, Inc.**

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

**Oil/Gas Pipelines/Electrical Transmission Lines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### STREET AND ADDRESS INFORMATION

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

FAR ROCKAWAY FORMER MGP  
BRUNSWICK AVENUE/B12TH STREET  
FAR ROCKAWAY, NY 11691

### **TARGET PROPERTY COORDINATES**

Latitude (North):	40.610298 - 40° 36' 37.1"
Longitude (West):	73.748703 - 73° 44' 55.3"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	605857.8
UTM Y (Meters):	4496039.5

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

### **TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE**

Target Property: 2440073-E6 LAWRENCE, NY  
Source: USGS 7.5 min quad index

### **GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY**

Target Property: Undeterminable

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

### **HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### **FEMA FLOOD ZONE**

<u>Target Property County</u>	<u>FEMA Flood Electronic Data</u>
QUEENS, NY	Not Available
Flood Plain Panel at Target Property:	Not Reported
Additional Panels in search area:	36059C0282F 36059C0301F

### **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
LAWRENCE	YES - refer to the Overview Map and Detail Map

### **HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Site-Specific Hydrogeological Data\*:

Search Radius: 2.0 miles  
Location Relative to TP: 1 - 2 Miles WSW  
Site Name: EDGEMERE LF  
Site EPA ID Number: NYD980754725  
Groundwater Flow Direction: TOWARD AND INTO SURROUNDING SURFACE WATER BODIES.  
Measured Depth to Water: less than 10 feet.  
Hydraulic Connection: Detailed hydraulic connection information is not available. The site is underlain by outwash sands, a clay unit, sand and gravel, and the Gardiners clay.  
Sole Source Aquifer: No information about a sole source aquifer is available  
Data Quality: Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

### AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

Era: Cenozoic  
System: Quaternary  
Series: Pleistocene  
Code: Qp (decoded above as Era, System & Series)

#### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

\* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam  
sand  
mucky - loamy sand

Surficial Soil Types: sandy loam  
sand  
mucky - loamy sand

Shallow Soil Types: sand  
loamy sand

Deeper Soil Types: stratified  
gravelly - coarse sand  
sand

### ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

### **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

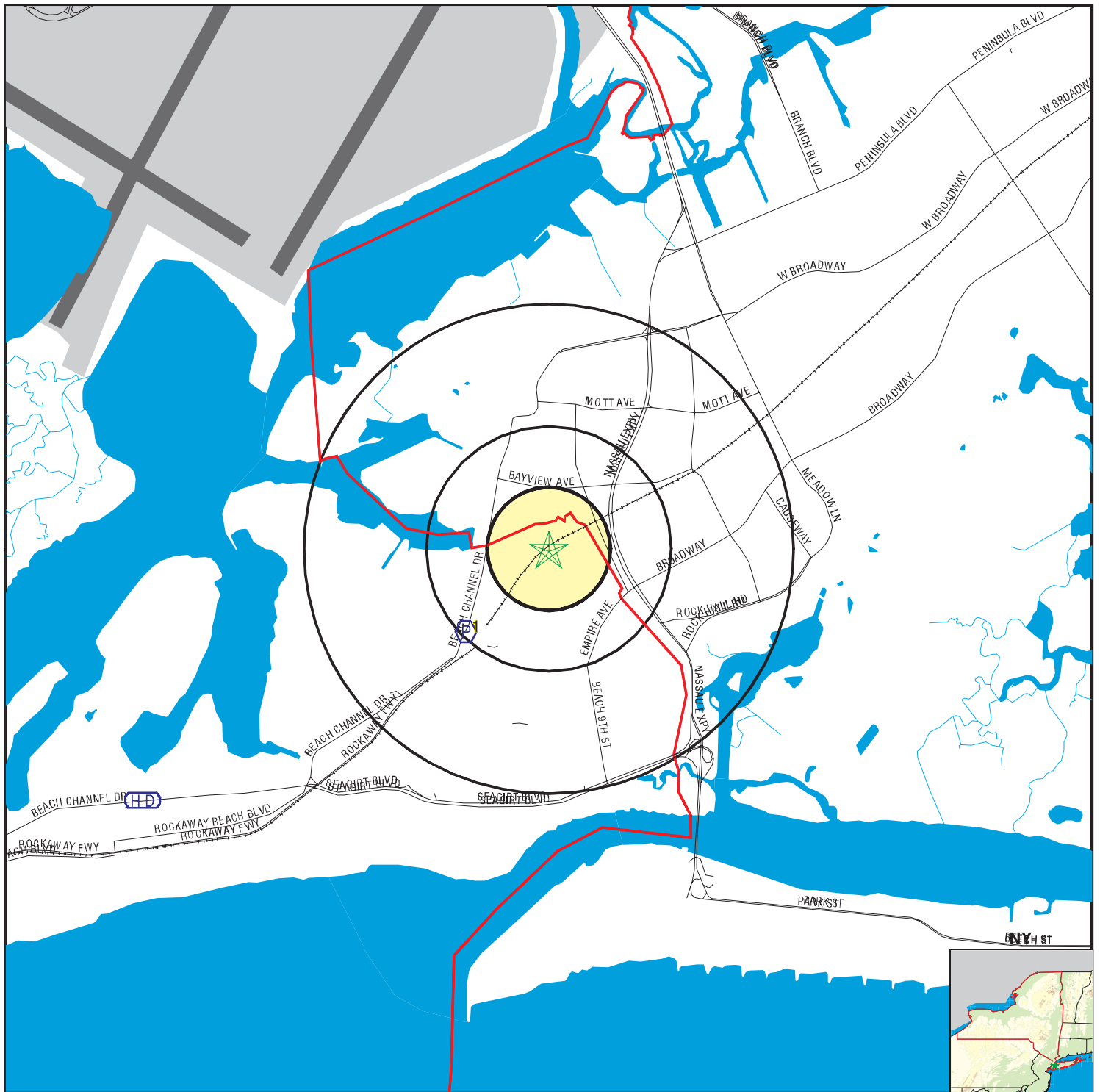
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	NY0003913	1/4 - 1/2 Mile SW

Note: PWS System location is not always the same as well location.

### **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

# PHYSICAL SETTING SOURCE MAP - 891213.3s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons

- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological Data

No contour lines were detected within this map area.

**TARGET PROPERTY:** Far Rockaway Former MGP  
**ADDRESS:** Brunswick Avenue/B12th Street  
**CITY/STATE/ZIP:** Far Rockaway NY 11691  
**LAT/LONG:** 40.6103 / 73.7487

**CUSTOMER:** Paulus Sokolowski & Sartor  
**CONTACT:** John Pastorick  
**INQUIRY #:** 891213.3s  
**DATE:** December 03, 2002 5:24 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**1**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**FRDS PWS NY0003913**

PWS ID: NY0003913 PWS Status: Active  
Date Initiated: Not Reported Date Deactivated: Not Reported  
PWS Name: CAMP ROMIMU  
MONTICELLO, NY 12701

Addressee / Facility: System Owner/Responsible Party  
PFEIFFER SHLOMO A  
CAMP ROOSEVELT INC  
904 SEAGIRT BLVD  
FAR ROCKAWAY, NY 11691

Facility Latitude: Not Reported Facility Longitude: Not Reported  
City Served: THOMPSON (T)  
Treatment Class: Not Reported Population: Not Reported

PWS currently has or had major violation(s) or enforcement: No

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

State Database: New York Radon Basement Screening Results for 11691:

Number of sites tested: 8

Average (pCi/L)	Geometric Mean (pCi/L)	Geometric Std Dev.	Maximum (pCi/L)	% Homes >4 pCi/L	% Homes >20 pCi/L
0.5	0.4	1.9	1.2	0.0	0.0

Federal EPA Radon Zone for QUEENS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for QUEENS COUNTY, NY

Number of sites tested: 81

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.620 pCi/L	97%	0%	3%
Basement	0.970 pCi/L	93%	6%	1%



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### **AQUIFLOW<sup>R</sup> Information System**

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### **Geologic Age and Rock Stratigraphic Unit**

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### **STATSGO: State Soil Geographic Database**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

## ADDITIONAL ENVIRONMENTAL RECORD SOURCES

### **FEDERAL WATER WELLS**

#### **PWS: Public Water Systems**

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### **PWS ENF: Public Water Systems Violation and Enforcement Data**

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

**USGS Water Wells:** In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STATE RECORDS

### New York Public Water Wells

Source: New York Department of Health  
Telephone: 518-458-6731

### New York Facility and Manifest Data

Source: NYSDEC  
Telephone: 518-457-6585  
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

## RADON

### New York Radon Basement Screening Results

Source: New York Department of Health  
Telephone: 518-402-7556

### Area Radon Information

Source: USGS  
Telephone: 303-202-4210  
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

### EPA Radon Zones

Source: EPA  
Telephone: 202-564-9370  
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## OTHER

### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

## **APPENDIX E**

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### **SOIL BORING / MONITORING WELL INSTRUCTION LOGS**

# BORING LOG

**PAULUS SOKOLOWSKI AND SARTOR, ENGINEERING, PC**

Consulting Engineers  
Warren, New Jersey

**BORING NO.: FRSB-01**

SHEET: 1 of 1

JOB NO.: 2522.006.024

PROJECT: Far Rockaway Former MGP Site	ELEVATION: 9.64
PROJECT LOCATION: Far Rockaway, Queens, New York	DATE STARTED: 12/4/02
OBSERVER: John Pastorick / Joseph Trocchio	DATE COMPLETED: 12/4/02
CONTRACTOR: Zebra Environmental Corp.	
DRILLER: Joe	HELPER: Shawn
TYPE OF RIG: Geo Probe	
CASING DIA. In: FROM to ft.	AUGER DIA. ID in OD
DRILLING MUD UTILIZED TYPE Water	ROTARY BIT DIA.
SAMPLING EQUIPMENT (Type and size)	MACRO CORE: 2" OD 4' Length
	U-TUBE SAMPLER: DIA. in. TYPE:
	CORE BARREL: CORE BIT:
SAMPLER HAMMER WEIGHT (LBS)	AVG. DROP in.

## WATER LEVEL OBSERVATIONS

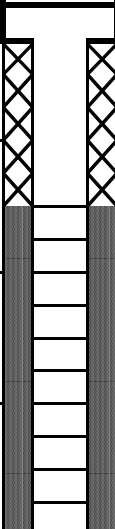
DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	REMARKS
12/2/02	1500	16'	-----	6'	Measured From Ground Surface

SAMPLE			SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
NO.	DEPTH (FT)	BLOWS/6"				
	0-4'		Topsoil (Dry)		SP/ FILL	PID= 1.6 ppm
			Gray Fine to Medium Sand, Little Fine Gravel,			PID= 20.4 ppm
			Trace Silt (Dry)			Analytical Sample FRSB-01A
					SP/ FILL	Collected @ 2'-4'
	4'-8'		Gray Fine to Medium Sand, Little Fine Gravel,			PID= 329.0 ppm, Black Staining
			Trace Silt (Moist)	5		Soils Saturated, Petroleum Odor
			Light Brown Fine to Medium Sand (Wet)		SP/ FILL	PID= 522.0 ppm, Black Staining
						Soils Saturated, Petroleum Odor
	8'-12'		Tan Fine to Medium Sand, Little Silt (Wet)			Analytical Sample FRSB-01B
					SP/ FILL	Collected @ 6'-7'
				10		PID= 3.2 ppm
	12'-16'		Tan Fine to Medium Sand, Little Silt (Wet)			PID= 3.0 ppm
					SP/ FILL	
				15		
				20		
				25		

**COMPLETION DEPTH = 16 FEET**

PLATE NO.

# Soil Boring/Monitoring Well Construction Log

<b>Paulus Sokolowski and Sartor Engineering, PC</b> <b>Consulting Engineers</b> <b>Warren, New Jersey</b>					<b>Boring No.: FRSB-02</b> <b>Well No.: FRGW-01</b>	
PROJECT: Far Rockaway Former MGP Site				<b>SAMPLING EQUIPMENT</b>		SHEET NO.: 1 of 1
PROJECT LOCATION: Brunswick Avenue, Far Rockaway, Queens, New York				SAMPLER: MacroCore		PROJECT NO.: 2522.006.024
CONTRACTOR: Zebra Environmental Corp.				SAMPLER LENGTH: 4'		START DATE: 12/2/02
DRILL RIG TYPE: GeoProbe				SAMPLER WIDTH: 2"		FINISH DATE: 12/2/02
DEVELOPMENT METHOD: 12-Volt Submersible Pump				<b>WELL SPECIFICATIONS</b>		DRILLER: Joe
DEVELOPMENT DATE: December 5, 2002				WELL DIA.(IN): 2"		HELPER: Shawn
<b>GROUNDWATER OBSERVATIONS</b>				ELEV. CASING TOP (FT): 10.15		PS&S PERSONNEL: Joseph Trocchio John Pastorick
<b>DATE</b>	<b>TIME</b>	<b>DEPTH</b>	<b>FROM</b>	ELEV. GS (FT): 10.26		
12/2/02	1400	4'	Ground Surface	CASING STICK-UP (FT): FM		
<b>GROUND SURFACE (GS)</b>						
Hand Auger Out First Four Feet of Borehole To Inspect For the Presence of Utilities Soils Dry	SP/FILL	2	Asphalt and Sub Base Topsoil			LOCKING WELL CAP CEMENT GROUT (0 TO 3' BELOW GS)
PID = 0.0 PPM Soils Dry	SP/FILL	4	Topsoil			1" O.D. SCHEDULE 40 PVC SOLID RISER PIPE (0 TO 3' BELOW GS)
PID = 0.2 PPM Soils Wet Collect Analytical Sample FRSB-02A @ 4'-6'	SP/FILL	6	Orange Fine to Medium Sand, Trace Silt			2" PREPACK WELL SCREEN (3' TO 8' BELOW GS)
PID = 0.3 PPM Soils Wet	SP/FILL	8	Orange Fine to Medium Sand, Trace Silt			
PID = 0.2 PPM Soils Wet	SP/FILL	10	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel			
Soils Wet PID = 0.0 PPM	SP/FILL	12	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel			
Soils Wet PID = 0.0 PPM	SP/FILL	14	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel			
PID = 2.8 PPM Collect Analytical Sample FRSB-02B @ 4'-6'	SP/FILL	16	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel			
<b>COMPLETION DEPTH = 16 FEET</b>						
NOTE: NOT TO SCALE						

# Soil Boring/Monitoring Well Construction Log

<b>Paulus Sokolowski and Sartor Engineering, PC</b> <b>Consulting Engineers</b> <b>Warren, New Jersey</b>					<b>Boring No.: FRSB-03</b> <b>Well No.: FRGW-02</b>	
PROJECT: Far Rockaway Former MGP Site PROJECT LOCATION: Brunswick Avenue, Far Rockaway, Queens, New York CONTRACTOR: Zebra Environmental Corp. DRILL RIG TYPE: GeoProbe DEVELOPMENT METHOD: 12-Volt Submersible Pump DEVELOPMENT DATE: December 5, 2002				<b>SAMPLING EQUIPMENT</b> SAMPLER: MacroCore SAMPLER LENGTH: 4' SAMPLER WIDTH: 2"		
<b>GROUNDWATER OBSERVATIONS</b>				<b>WELL SPECIFICATIONS</b>		
<b>DATE</b>	<b>TIME</b>	<b>DEPTH</b>	<b>FROM</b>	WELL DIA.(IN):	2"	
December 2, 2002	1100	4'	Ground Surface	ELEV. CASING TOP (FT):	10.49	
				ELEV. GS (FT):	10.7	
				CASING STICK-UP (FT):	FM	
<b>PS&amp;S PERSONNEL:</b> Joseph Trocchio John Pastorick						
<b>REMARKS</b>	<b>STRATA</b>	<b>DEPTH (FT.)</b>	<b>STRATIGRAPHY</b>	<b>WELL DIAGRAM</b>	<b>WELL CONSTRUCTION</b>	
<b>GROUND SURFACE (GS)</b>						
Soils Dry PID = 0.3 PPM	SP/FILL		Topsoil		LOCKING WELL CAP	
PID = 16.4 PPM	SP/FILL	<b>2</b>	Black Fine to Medium Sand, Little Gravel, Fill Material Consisitng of Brick, Concrete		CEMENT GROUT (0 TO 3' BELOW GS)	
Soils Dry PID = 44 PPM	SP/FILL	<b>4</b>	Black Fine to Medium Sand, Little Gravel, Fill Material Consisitng of Brick, Concrete		1" O.D. SCHEDULE 40 PVC SOLID RISER PIPE (0 TO 3' BELOW GS)	
PID = 53 PPM	SP/FILL	<b>6</b>	Grayish Brown Fine to Coarse Sand, Trace Silt, Little Medium Gravel		2" PREPACK	
PID = 80 PPM, Black Staining, Creosote Like Odor Sols Wet @ 4'	SP/FILL	<b>8</b>	Grayish Brown Fine to Coarse Sand, Trace Silt, Little Medium Gravel		1" PVC WELL SCREEN	
PID = 318 PPM Heavy Black Staining, Soils Saturated, Creosote Like Odor Collect Anlytical Sample PID = 521 PPM Heavy Black Staining,	SP/FILL	<b>10</b>	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel		1" FILTER PACK (3' TO 8' BELOW GS)	
Soils Saturated, Creosote Llike Odor FRSB-03A @ 6.5'-7.5' PID = 17 PPM PID = 16 PPM	SP/FILL	<b>12</b>	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel			
PID = 4 PPM	SP/FILL	<b>14</b>	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel			
PID = 4.1 PPM PID = 1.4 PPM Collect Anlytical Sample FRSB-03B @ 12.5'-13.5' PID = 1.1 PPM	SP/FILL	<b>16</b>	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel			
			<b>COMPLETION DEPTH = 16 FEET</b>			
NOTE: NOT TO SCALE						

## Soil Boring/Monitoring Well Construction Log

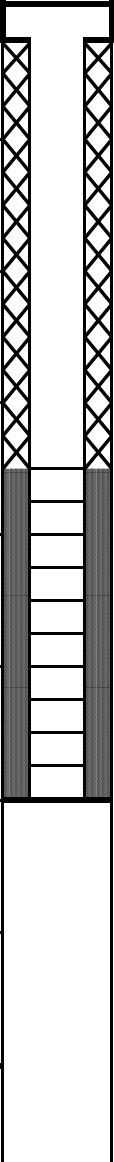
**Paulus Sokolowski and Sartor Engineering, PC**  
**Consulting Engineers**  
**Warren, New Jersey**

**Boring No.: FRSB-04**  
**Well No.: FRGW-03**

PROJECT: Far Rockaway Former MGP Site				<b>SAMPLING EQUIPMENT</b>		SHEET NO.: 1 of 1	
PROJECT LOCATION: Brunswick Avenue, Far Rockaway, Queens, New York				SAMPLER: MacroCore		PROJECT NO.: 2522.006.024	
CONTRACTOR: Zebra Environmental Corp.				SAMPLER LENGTH: 4'		START DATE: 12/4/02	
DRILL RIG TYPE: GeoProbe				SAMPLER WIDTH: 2"		FINISH DATE: 12/4/02	
DEVELOPMENT METHOD: 12-Volt Submersible Pump						DRILLER: Joe	
DEVELOPMENT DATE: December 5, 2002				<b>WELL SPECIFICATIONS</b>		HELPER: Shawn	
<b>GROUNDWATER OBSERVATIONS</b>				WELL DIA.(IN): 2"		<b>PS&amp;S PERSONNEL:</b> Joseph Trocchio John Pastorick	
<b>DATE</b>	<b>TIME</b>	<b>DEPTH</b>	<b>FROM</b>	ELEV. CASING TOP (FT): 11.15			
December 4, 2002	1110	8'	Ground Surface	ELEV. GS (FT): 11.33			
				CASING STICK-UP (FT): FM			

REMARKS	STRATA	DEPTH (FT.)	STRATIGRAPHY	WELL DIAGRAM	WELL CONSTRUCTION
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### GROUND SURFACE (GS)

PID = 0.3 PPM Soils Dry	SP/FILL	2	Dark Brown Fine to Medium Sand, Little Fine Gravel		LOCKING WELL CAP CEMENT GROUT (0 TO 7' BELOW GS)
PID = 0.3 PPM Soils Dry	SP/FILL	4	Black Fine to Medium Sand, Little Fine Gravel, Fill Material Consisting of Brick, Cinders		1" O.D. SCHEDULE 40 PVC SOLID RISER PIPE (0 TO 7' BELOW GS)
PID = 1.7 PPM Soils Dry	SP/FILL	6	Black Fine to Medium Sand, Little Fine Gravel, Fill Material Consisting of Brick, Cinders		
PID = 0.6 PPM Soils Dry	SP/FILL	8	Light Brown Fine to Medium Sand		
PID = 199 PPM Black Staining, Sheen Creosote Like Odor Soils Wet @ 8' Collect Anlytical Sample FRSB-04A @ 9'-10'	SP/FILL	10	Light Brown Fine to Medium Sand		2" PREPACK 1" WELL SCREEN 1" FILTER PACK (7' TO 12' BELOW GS)
PID = 160 PPM Black Staining, Sheen Creosote Like Odor Soils Wet	SP/FILL	12	Light Brown Fine to Medium Sand		
PID = 3.5 PPM Soils Wet	SP/FILL	14	Light Gray Fine to Medium Sand		
Soils Wet PID = 6.4 PPM Collect Anlytical Sample FRSB-04A @ 15'-16'	SP/FILL	16	Light Gray Fine to Medium Sand		
			COMPLETION DEPTH = 16 FEET		

NOTE: NOT TO SCALE

# Soil Boring/Monitoring Well Construction Log

<b>Paulus Sokolowski and Sartor Engineering, PC</b> <b>Consulting Engineers</b> <b>Warren, New Jersey</b>					<b>Boring No.: FRSB-08</b> <b>Well No.: FRGW-05</b>	
PROJECT: Far Rockaway Former MGP Site PROJECT LOCATION: Brunswick Avenue, Far Rockaway, Queens, New York CONTRACTOR: Zebra Environmental Corp. DRILL RIG TYPE: GeoProbe DEVELOPMENT METHOD: 12-Volt Submersible Pump DEVELOPMENT DATE: December 5, 2002				<b>SAMPLING EQUIPMENT</b> SAMPLER: MacroCore SAMPLER LENGTH: 4' SAMPLER WIDTH: 2"		
<b>GROUNDWATER OBSERVATIONS</b>				<b>WELL SPECIFICATIONS</b>		
<b>DATE</b>	<b>TIME</b>	<b>DEPTH</b>	<b>FROM</b>	WELL DIA.(IN):	2"	
December 2, 2002	1350	4.5'	Ground Surface	ELEV. CASING TOP (FT):	11.66	
				ELEV. GS (FT):	11.8	
				CASING STICK-UP (FT):	FM	
<b>PS&amp;S PERSONNEL:</b> Joseph Trocchio John Pastorick						
<b>REMARKS</b>		<b>STRATA</b>	<b>DEPTH (FT.)</b>	<b>STRATIGRAPHY</b>	<b>WELL DIAGRAM</b>	
<b>GROUND SURFACE (GS)</b>						
PID = 0.0 PPM	SP/FILL		Concrete and Sub Base	LOCKING WELL CAP		
PID = 0.0 PPM			Orange Fine to Medium Sand, Trace Silt,	CEMENT GROUT		
Soils Dry		<b>2</b>	Little Medium Gravel	(0 TO 10' BELOW GS)		
Soils Dry	SP/FILL		Orange Fine to Medium Sand, Trace Silt,	1" O.D. SCHEDULE 40 PVC		
Collect Analytical Sample FRSB-08A @ 4'-5'		<b>4</b>	Little Medium Gravel	SOLID RISER PIPE		
PID = 0.0 PPM				(0 TO 10' BELOW GS)		
PID = 0.0 PPM	SP/FILL		Orange Fine to Medium Sand, Trace Silt,			
Soils Wet @ 4.5'		<b>6</b>	Little Medium Gravel			
PID = 0.0 PPM	SP/FILL		Yellowish Fine Sand			
Soils Wet	SP/FILL		Orange Fine to Medium Sand, Trace Silt,			
		<b>8</b>	Little Medium to Coarse Gravel			
PID = 0.0 PPM	SP/FILL		Orange Fine to Coarse Sand and			
PID = 0.6 PPM		<b>10</b>	Medium to Coarse Gravel			
Soils Wet	SP/FILL		Orange Fine to Coarse Sand and			
PID = 1.4 PPM		<b>12</b>	Medium to Coarse Gravel	2" PREPACK		
Soils Wet	SP/FILL		Orange Fine to Coarse Sand and	1" WELL SCREEN		
PID = 1.3 PPM		<b>14</b>	Medium to Coarse Gravel	1" FILTER PACK		
PID = 0.0 PPM	SP/FILL		Orange Fine to Coarse Sand and	(10' TO 15' BELOW GS)		
PID = 0.6 PPM		<b>16</b>	Medium to Coarse Gravel			
Soils Wet	SP/FILL		Orange Fine to Coarse Sand and			
PID = 4.3 PPM			Medium to Coarse Gravel			
Collect Analytical Sample FRSB-08B @ 4'-5'						
Soils Wet						
PID = 0.6 PPM						
<b>COMPLETION DEPTH = 16 FEET</b>						
NOTE: NOT TO SCALE						



# Soil Boring/Monitoring Well Construction Log

<b>Paulus Sokolowski and Sartor Engineering, PC</b> <b>Consulting Engineers</b> <b>Warren, New Jersey</b>					<b>Boring No.: FRSB-09</b> <b>Well No.: FRGW-06</b>	
PROJECT: Far Rockaway Former MGP Site				<b>SAMPLING EQUIPMENT</b>		SHEET NO.: 1 of 1
PROJECT LOCATION: Brunswick Avenue, Far Rockaway, Queens, New York				SAMPLER: MacroCore		PROJECT NO.: 2522.006.024
CONTRACTOR: Zebra Environmental Corp.				SAMPLER LENGTH: 4'		START DATE: 12/4/02
DRILL RIG TYPE: GeoProbe				SAMPLER WIDTH: 2"		FINISH DATE: 12/4/02
DEVELOPMENT METHOD: 12-Volt Submersible Pump						DRILLER: Joe
DEVELOPMENT DATE: December 5, 2002				<b>WELL SPECIFICATIONS</b>		HELPER: Shawn
<b>GROUNDWATER OBSERVATIONS</b>				WELL DIA.(IN): 2"		PS&S PERSONNEL: Joseph Trocchio John Pastorick
<b>DATE</b>	<b>TIME</b>	<b>DEPTH</b>	<b>FROM</b>	ELEV. CASING TOP (FT): 10.4		
December 4, 2002	1620	7'	Ground Surface	ELEV. GS (FT): 10.54		
				CASING STICK-UP (FT): FM		
<b>REMARKS</b>	<b>STRATA</b>	<b>DEPTH (FT.)</b>	<b>STRATIGRAPHY</b>	<b>WELL DIAGRAM</b>	<b>WELL CONSTRUCTION</b>	
<b>GROUND SURFACE (GS)</b>						
PID = 0.1 PPM  Soils Dry	SP/FILL	<b>2</b>	Asphalt and Sub Base Brown Fine to Medium Sand, Trace Silt		LOCKING WELL CAP CEMENT GROUT (0 TO 6' BELOW GS)	
PID = 0.3 PPM	SP/FILL	<b>4</b>	Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel		1" O.D. SCHEDULE 40 PVC SOLID RISER PIPE (0 TO 6' BELOW GS)	
PID = 0.2 PPM	SP/FILL		Orange Fine to Medium Sand, Trace Silt, Little Medium Gravel			
PID = 0.2 PPM Soils Dry	SP/FILL	<b>6</b>	Tan Fine to Medium Sand, Trace Silt			
Collect Analytical Sample FRSB-09A @ 6'-7'	SP/FILL		Tan Fine to Medium Sand, Trace Silt			
Soils Wet @ 7'		<b>8</b>				
PID = 0.0 PPM	SP/FILL		Tan Fine to Medium Sand, Trace Silt			
Soils Wet	SP/FILL	<b>10</b>	White Fine to Medium Sand			
PID = 0.0 PPM						
Soils Wet	SP/FILL	<b>12</b>	Tan Fine to Medium Sand, Trace Silt			
PID = 0.0 PPM	SP/FILL		Tan Fine to Medium Sand, Trace Silt			
Collect Analytical Sample FRSB-09B @ 13'-14'	SP/FILL		Tan Fine to Coarse Sand, Some Medium Gravel			
Soils Wet		<b>14</b>				
PID = 0.0 PPM	SP/FILL		Orange Fine to Medium Sand, Some Silt Tan Fine to Medium Sand, Trace Silt			
Soils Wet		<b>16</b>				
			<b>COMPLETION DEPTH = 16 FEET</b>			
NOTE: NOT TO SCALE						

[illegible]

# Soil Boring/Monitoring Well Construction Log

<b>Paulus Sokolowski and Sartor Engineering, PC</b> <b>Consulting Engineers</b> <b>Warren, New Jersey</b>						<b>Boring No.: FRSB-11</b> <b>Well No.: FRGW-07</b>																	
PROJECT: Far Rockaway Former MGP Site PROJECT LOCATION: Brunswick Avenue, Far Rockaway, Queens, New York CONTRACTOR: Zebra Environmental Corp. DRILL RIG TYPE: GeoProbe DEVELOPMENT METHOD: 12-Volt Submersible Pump DEVELOPMENT DATE: December 5, 2002				<b>SAMPLING EQUIPMENT</b> SAMPLER: MacroCore SAMPLER LENGTH: 4' SAMPLER WIDTH: 2"		SHEET NO.: 1 of 1 PROJECT NO.: 2522.006.024 START DATE: 12/4/02 FINISH DATE: 12/4/02 DRILLER: Joe HELPER: Shawn																	
<b>GROUNDWATER OBSERVATIONS</b>				<b>WELL SPECIFICATIONS</b> WELL DIA.(IN): 2" ELEV. CASING TOP (FT): 10.79 ELEV. GS (FT): 10.87 CASING STICK-UP (FT): FM		PS&S PERSONNEL: Joseph Trocchio John Pastorick																	
<b>DATE</b>	<b>TIME</b>	<b>DEPTH</b>	<b>FROM</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">December 4, 2002</td> <td style="width: 10%;">1050</td> <td style="width: 10%;">7'</td> <td style="width: 60%;">Ground Surface</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				December 4, 2002	1050	7'	Ground Surface												
December 4, 2002	1050	7'	Ground Surface																				
<b>REMARKS</b>		<b>STRATA</b>	<b>DEPTH (FT.)</b>	<b>STRATIGRAPHY</b>	<b>WELL DIAGRAM</b>	<b>WELL CONSTRUCTION</b>																	
<b>GROUND SURFACE (GS)</b>																							
PID = 0.0 PPM  Soils Dry	SP/FILL	2	Asphalt and Sub Base  Orange Fine to Medium Sand, Trace Silt			LOCKING WELL CAP CEMENT GROUT (0 TO 3' BELOW GS)  1" O.D. SCHEDULE 40 PVC SOLID RISER PIPE (0 TO 3' BELOW GS)  2" PREPACK 1" WELL SCREEN 1" FILTER PACK (3' TO 8' BELOW GS)																	
PID = 0.3 PPM Soils Dry	SP/FILL	4	Orange Fine to Medium Sand, Trace Silt																				
PID = 0.2 PPM Soils Dry PID = 0.2 PPM Collect Analytical Sample FRSB-11A @ 6'-7'	SP/FILL	6	Orange Fine to Medium Sand, Trace Silt																				
Soils Wet @ 7'	SP/FILL	8	Orange Fine to Medium Sand, Trace Silt																				
PID = 0.0 PPM  Soils Wet	SP/FILL	10	Orange Fine to Medium Sand, Trace Silt																				
PID = 0.0 PPM  Soils Wet	SP/FILL	12	Orange Fine to Medium Sand, Trace Silt																				
PID = 0.0 PPM  Collect Analytical Sample FRSB-11B @ 13'-14' Soils Wet	SP/FILL	14	Orange Fine to Medium Sand, Trace Silt																				
PID = 0.0 PPM  Soils Wet	SP/FILL	16	Orange Fine to Medium Sand, Trace Silt																				
<b>COMPLETION DEPTH = 16 FEET</b>																							
NOTE: NOT TO SCALE																							

[illegible]

## **APPENDIX F**

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### **SOIL VAPOR SAMPLE LOGS**

**PS&SPC**  
**Summa Canister Record**

Date: 12/4/02  
By: JRT

Project Name: Keyspan PSA  
Project Location: Far Rockaway

Sample No. FRSV-01  
Canister ID No. CT 4397  
Flow Control ID No. CT 30  
Flow Setting: 1 HOUR

	Canister Vacuum (in Hg)	Barometric Pressure (in Hg)	Ambient Temperature (degrees Farenheit)
Pre-Test (a)	28	31	34
Post-Test	4	31	34
Notes: (a) Compare Pre-test canister vacuum with laboratory settings as shipped. Do not use canister if vacuum readings do not agree within 1.0 inch Hg			

Sample Start Time	Sample End Time	Sample Period	Comments
1430	1520	50 MIN	

Field Screening 1.4 ppm  
           % CH4

Chain-of-Custody Sheet No.             
Air Bill Tracking No.

**PS&SPC**  
**Summa Canister Record**

Date: 12/5/02  
By: JRT

Project Name: Keyspan PSA  
Project Location: Far Rockaway

Sample No. FRSV-02  
Canister ID No. CT 3384  
Flow Control ID No. CT 5  
Flow Setting: 1 HOUR

	Canister Vacuum (in Hg)	Barometric Pressure (in Hg)	Ambient Temperature (degrees Farenheit)
Pre-Test (a)	30	29	27
Post-Test	4	29	27
Notes: (a) Compare Pre-test canister vacuum with laboratory settings as shipped. Do not use canister if vacuum readings do not agree within 1.0 inch Hg			

Sample Start Time	Sample End Time	Sample Period	Comments
1205	1305	60 MIN	SNOWING

Field Screening 1.4 ppm  
           % CH<sub>4</sub>

Chain-of-Custody Sheet No.             
Air Bill Tracking No.

**PS&SPC**  
**Summa Canister Record**

Date: 12/4/02  
By: JRT

Project Name: Keyspan PSA  
Project Location: Far Rockaway

Sample No. FRSV-03  
Canister ID No. CT 4415  
Flow Control ID No. CT 16  
Flow Setting: 1 HOUR

	Canister Vacuum (in Hg)	Barometric Pressure (in Hg)	Ambient Temperature (degrees Farenheit)
Pre-Test (a)	28	31	34
Post-Test	2	31	34
Notes: (a) Compare Pre-test canister vacuum with laboratory settings as shipped. Do not use canister if vacuum readings do not agree within 1.0 inch Hg			

Sample Start Time	Sample End Time	Sample Period	Comments
1420	1455	35 MIN	

Field Screening 2.1 ppm  
           % CH4

Chain-of-Custody Sheet No.             
Air Bill Tracking No.



**PS&SPC**  
**Summa Canister Record**

Date: 12/4/02  
By: JRT

Project Name: Keyspan PSA  
Project Location: Far Rockaway

Sample No. FRSV-04  
Canister ID No. CT 3373  
Flow Control ID No. CT 74  
Flow Setting: 1 HOUR

	Canister Vacuum (in Hg)	Barometric Pressure (in Hg)	Ambient Temperature (degrees Farenheit)
Pre-Test (a)	30	31	34
Post-Test	4	31	34
Notes: (a) Compare Pre-test canister vacuum with laboratory settings as shipped. Do not use canister if vacuum readings do not agree within 1.0 inch Hg			

Sample Start Time	Sample End Time	Sample Period	Comments
1411	1500	49 MIN	

Field Screening 0.3 ppm  
           % CH4

Chain-of-Custody Sheet No.             
Air Bill Tracking No.

**PS&SPC**  
**Summa Canister Record**

Date: 12/4/02  
By: JRT

Project Name: Keyspan PSA  
Project Location: Far Rockaway

Sample No. FRSV-06  
Canister ID No. CT 4414  
Flow Control ID No. CT 38  
Flow Setting: 1 HOUR

	Canister Vacuum (in Hg)	Barometric Pressure (in Hg)	Ambient Temperature (degrees Farenheit)
Pre-Test (a)	30*	31	34
Post-Test	8	31	34
Notes: (a) Compare Pre-test canister vacuum with laboratory settings as shipped. Do not use canister if vacuum readings do not agree within 1.0 inch Hg			

\* GAUGE STARTED @ 35

Sample Start Time	Sample End Time	Sample Period	Comments
1410	1500	50 MIN	

Field Screening 0.3 ppm  
           % CH4

Chain-of-Custody Sheet No.             
Air Bill Tracking No.

## **APPENDIX G**

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### **WELL SAMPLING LOGS**

# "LOW-FLOW" SAMPLING TECHNIQUE GROUNDWATER QUALITY PARAMETER READINGS

Job Name: <u>Far Rockaway MGP</u>	Weather: <u>Overcast 40's</u>	Pump Depth: <u>8.5'</u>
Job #: <u>2522.006.024</u>	Personnel: <u>JMP JRT</u>	Pump Start Time: <u>9:41</u>
Location: <u>Far Rockaway NY</u>	Well #: <u>FRGW-07</u>	Pumping Rate: <u>.25 gal</u>
Date: <u>12/12/02</u>	Water Level: <u>5.95'</u>	Total Purged: <u>2.63 gallons</u>
PID Reading: <u>1.4</u>	Sample Time: <u>9:52</u>	

TIME	pH (SU)	TEMP (°C)	COND (mS/cm)	DO (ppm)	TURB (NTU)	Eo (mV)	WATER LEVEL
941	5.91	12.76	0.215	8.27	999	145	5.95'
941.5	6.10	12.71	0.206	7.23	999	138	5.95'
942	6.13	12.77	0.195	6.95	856	137	5.95'
942.5	6.14	12.71	0.193	6.66	820	136	5.95'
943	6.15	12.68	0.204	6.41	780	133	5.95'
943.5	6.17	12.68	0.210	6.19	301	131	5.95'
944	6.19	12.95	0.219	5.88	254	126	5.95'
944.5	6.21	13.10	0.223	5.70	175	123	5.95'
945	6.23	13.04	0.225	5.61	161	120	5.95'
945.5	6.25	12.94	0.231	5.48	124	116	5.95'
946	6.26	12.99	0.232	5.39	120	114	5.95'
946.5	6.27	13.05	0.234	5.28	76.4	111	5.95'
947	6.28	13.09	0.236	5.20	72.6	108	5.95'
947.5	6.28	13.12	0.238	5.14	59.6	107	5.95'
948	6.28	13.06	0.240	5.11	62.6	105	5.95'
948.5	6.28	13.02	0.242	5.08	44.5	104	5.95'
949	6.28	13.09	0.244	5.01	43.1	102	5.95'
949.5	6.28	13.08	0.245	4.97	38.2	101	5.95'
950	6.28	13.12	0.247	4.95	34.5	100	5.95'
950.5	6.28	13.19	0.247	4.92	34.5	99	5.95'
951	6.28	13.18	0.245	4.88	34.9	98	5.95'
951.5	6.27	13.24	0.247	4.85	35.7	97	5.95'

## "LOW-FLOW" SAMPLING TECHNIQUE GROUNDWATER QUALITY PARAMETER READINGS

Job Name: <u>Far Rockaway MGP</u>	Weather: <u>Overcast 40's</u>	Pump Depth: <u>8.05'</u>
Job #: <u>2522.006.024</u>	Personnel: <u>JMP JRT</u>	Pump Start Time: <u>1023</u>
Location: <u>Far Rockaway NY</u>	Well #: <u>FRGW-01</u>	Pumping Rate: <u>.25 gal</u>
Date: <u>12/12/02</u>	Water Level: <u>5.81'</u>	Total Purged: <u>2.25 gallons</u>
PID Reading: <u>0.00</u>	Sample Time: <u>10:35</u>	

TIME	pH (SU)	TEMP (°C)	COND (mS/cm)	DO (ppm)	TURB (NTU)	EO (mV)	WATER LEVEL
1024.5	6.31	11.05	4.67	9.36	307.0	98	5.81'
1025	6.38	11.36	5.18	6.58	137.0	82	5.81'
1026	6.46	11.53	5.58	3.92	37.2	75	5.81'
1026.5	6.50	11.57	5.62	2.81	19.7	70	5.81'
1027	6.52	11.52	5.68	2.23	15.7	67	5.81'
1027.5	6.54	11.56	5.64	1.83	11.7	65	5.81'
1028	6.56	11.56	5.62	1.57	8.4	63	5.81'
1028.5	6.57	11.47	5.60	1.38	6.8	61	5.81'
1029	6.59	11.48	5.55	1.22	4.7	60	5.81'
1029.5	6.60	11.55	5.55	1.04	11.7	58	5.81'
1030	6.61	11.55	5.47	0.97	10.7	57	5.81'
1030.5	6.62	11.55	5.44	0.92	9.8	56	5.81'
1031	6.63	11.57	5.41	0.88	9.8	56	5.81'
1031.5	6.63	11.56	5.41	0.86	9.7	55	5.81'
1032	6.63	11.55	5.40	0.85	9.6	54	5.81'

## "LOW-FLOW" SAMPLING TECHNIQUE GROUNDWATER QUALITY PARAMETER READINGS

Job Name: <u>Far Rockaway MGP</u>	Weather: <u>Overcast 40's</u>	Pump Depth: <u>7.81'</u>
Job #: <u>2522.006.024</u>	Personnel: <u>JMP JRT</u>	Pump Start Time: <u>11:09</u>
Location: <u>Far Rockaway NY</u>	Well #: <u>FRGW-02</u>	Pumping Rate: <u>.25 gal</u>
Date: <u>12/12/02</u>	Water Level: <u>5.78'</u>	Total Purged: <u>2.25 gallons</u>
PID Reading: <u>22.9</u>	Sample Time: <u>11:20</u>	

TIME	pH (SU)	TEMP (°C)	COND (mS/cm)	DO (ppm)	TURB (NTU)	Eo (mV)	WATER LEVEL
1109	6.95	11.04	0.498	9.70	495	-50	5.78'
1110	6.92	11.47	0.480	4.74	667	-47	
1111	6.92	10.97	0.515	2.50	745	-43	
1111.5	6.93	10.98	0.507	2.34	608	-33	
1112	6.94	11.04	0.497	2.18	511	-29	
1112.5	6.95	11.05	0.490	2.13	414	-27	
1113	6.96	11.08	0.479	2.85	303	-26	
1113.5	6.97	11.10	0.472	3.88	248	-26	
1114	6.97	11.15	0.468	4.59	199	-26	
1114.5	6.98	11.16	0.464	5.01	180	-26	6.01'
1115	6.98	11.18	0.462	5.49	158	-26	
1115.5	6.98	11.24	0.459	5.94	130	-27	
1116	6.99	11.26	0.457	6.20	117	-27	
1116.5	6.99	11.29	0.456	6.43	110	-28	
1117	6.99	11.28	0.455	6.48	109	-28	
1117.5	6.99	11.29	0.454	6.51	107	-28	
1118	7.00	11.27	0.453	6.50	107	-28	6.17'

## "LOW-FLOW" SAMPLING TECHNIQUE GROUNDWATER QUALITY PARAMETER READINGS

Job Name: <u>Far Rockaway MGP</u>	Weather: <u>Overcast 40's</u>	Pump Depth: <u>10.35'</u>
Job #: <u>2522.006.024</u>	Personnel: <u>JMP JRT</u>	Pump Start Time: <u>1425</u>
Location: <u>Far Rockaway NY</u>	Well #: <u>FRGW-06</u>	Pumping Rate: <u>.25 gal</u>
Date: <u>12/12/02</u>	Water Level: <u>5.32'</u>	Total Purged: <u>2.5 gallons</u>
PID Reading: <u>0.20</u>	Sample Time: <u>1440</u>	

TIME	pH (SU)	TEMP (°C)	COND (mS/cm)	DO (ppm)	TURB (NTU)	EO (mV)	WATER LEVEL
1425.5	7.15	12.05	0.108	10.26	999	59	5.32'
1426	7.09	12.08	0.113	8.62	999	65	5.32'
1426.5	7.04	12.07	0.118	7.24	711	70	5.32'
1427	7.01	12.05	0.123	6.58	552	72	5.32'
1427.5	6.99	12.07	0.125	6.19	397	74	5.32'
1428	6.98	12.07	0.128	5.96	357	76	5.32'
1428.5	6.97	12.06	0.129	5.78	292	77	5.32'
1429	6.97	12.06	0.131	5.65	237	78	5.32'
1429.5	6.96	12.11	0.133	5.54	174	79	5.32'
1430	6.96	12.09	0.134	5.48	143	79	5.32'
1430.5	6.96	12.08	0.136	5.43	112	79	5.32'
1431	6.96	12.11	0.136	5.36	95.2	79	5.32'
1431.5	6.95	12.12	0.137	5.32	82.1	78	5.32'
1432	6.95	12.16	0.138	5.28	75.7	77	5.32'
1432.5	6.95	12.11	0.138	5.25	66.4	76	5.32'
1433	6.96	12.11	0.139	5.21	58.8	74	5.32'
1433.5	6.96	12.12	0.139	5.18	59.9	73	5.32'
1434	6.96	12.15	0.140	5.14	49.6	71	5.32'
1434.5	6.95	12.17	0.140	5.11	45.5	70	5.32'
1435	6.95	12.20	0.140	5.07	42.7	60	5.32'

## "LOW-FLOW" SAMPLING TECHNIQUE GROUNDWATER QUALITY PARAMETER READINGS

Job Name: Far Rockaway MGP	Weather: Overcast 40's	Pump Depth: 14.42
Job #: 2522.006.024	Personnel: JMP JRT	Pump Start Time: 1344
Location: Far Rockaway NY	Well #: FRGW-05	Pumping Rate: .25 gal
Date: 12/12/02	Water Level: 6.42	Total Purged: 2.63 gallons
PID Reading: 0.30	Sample Time: 1357	

TIME	pH (SU)	TEMP (°C)	COND (mS/cm)	DO (ppm)	TURB (NTU)	Eo (mV)	WATER LEVEL
1344	6.67	13.92	0.383	8.51	999	38	6.42'
1344.5	6.66	13.85	0.379	5.05	999	40	6.42'
1345	6.65	13.82	0.378	3.53	999	45	6.42'
1345.5	6.64	13.80	0.376	2.64	999	45	6.42'
1346	6.62	13.84	0.375	2.10	999	47	6.42'
1346.5	6.61	13.85	0.374	1.79	999	50	6.42'
1347	6.60	13.84	0.373	1.53	999	53	6.42'
1347.5	6.60	13.88	0.372	1.38	999	55	6.42'
1348	6.58	13.75	0.372	1.28	999	56	6.42'
1348.5	6.58	13.54	0.371	1.20	999	58	6.42'
1349	6.58	13.51	0.370	1.12	999	59	6.42'
1349.5	6.57	13.49	0.371	1.08	994	61	6.42'
1350	6.57	13.70	0.370	1.03	706	63	6.42'
1350.5	6.56	13.85	0.369	1.00	490	64	6.42'
1351	6.56	13.88	0.369	0.95	339	65	6.42'
1351.5	6.55	13.88	0.368	0.93	245	66	6.42'
1352	6.55	13.89	0.368	0.89	191	68	6.42'
1352.5	6.55	13.90	0.368	0.86	155	68	6.42'
1353	6.56	13.90	0.368	0.85	117	69	6.42'
1353.5	6.56	13.87	0.367	0.83	101	70	6.42'
1354	6.56	13.90	0.367	0.80	80.5	70	6.42'
1354.5	6.56	13.92	0.367	0.79	66.9	71	6.42'



## "LOW-FLOW" SAMPLING TECHNIQUE GROUNDWATER QUALITY PARAMETER READINGS

Job Name: <u>Far Rockaway MGP</u>	Weather: <u>Overcast 40's</u>	Pump Depth: <u>12.10</u>
Job #: <u>2522.006.024</u>	Personnel: <u>JMP JRT</u>	Pump Start Time: <u>1219</u>
Location: <u>Far Rockaway NY</u>	Well #: <u>FRGW-03</u>	Pumping Rate: <u>.25 gal</u>
Date: <u>12/12/02</u>	Water Level: <u>6.95</u>	Total Purged: <u>3.5 gallons</u>
PID Reading: <u>88.20</u>	Sample Time: <u>12:35</u>	

TIME	pH (SU)	TEMP (°C)	COND (mS/cm)	DO (ppm)	TURB (NTU)	Eo (mV)	WATER LEVEL
1219	7.39	10.97	0.002	11.45	452.00	-89	6.95'
1219.5	7.12	11.48	0.475	11.73	442.00	-89	
1220	7.05	12.09	0.502	8.04	434.00	-89	
1220.5	7.02	12.27	0.499	5.32	467.00	-91	
1221	7.00	12.68	0.493	3.46	470.00	-93	
1221.5	6.99	12.94	0.486	2.51	437.00	-96	
1222	6.99	13.22	0.482	2.04	394.00	-99	
1222.5	6.99	13.46	0.474	1.72	370.00	-101	
1223	6.99	13.68	0.464	1.51	303.00	-103	
1223.5	6.99	13.86	0.455	1.35	278.00	-106	
1224	6.99	13.97	0.446	1.25	239.00	-108	
1224.5	6.99	14.10	0.438	1.15	202.00	-110	
1225	6.99	14.18	0.431	1.09	190.00	-111	7.02'
1225.5	6.99	14.30	0.424	1.03	158.00	-113	
1226	6.99	14.39	0.417	0.98	138.00	-114	
1226.5	7.00	14.47	0.410	0.95	116.00	-115	
1227	7.00	14.51	0.403	0.93	106.00	-116	
1227.5	7.00	14.58	0.397	0.89	90.90	-117	
1228	7.00	14.63	0.394	0.87	86.60	-118	
1228.5	7.01	14.70	0.389	0.86	74.50	-119	
1229	7.01	14.79	0.382	0.83	66.40	-120	
1229.5	7.01	14.82	0.374	0.82	55.1	-120	
1230	7.01	14.86	0.372	0.80	51.6	-122	
1230.5	7.02	14.89	0.366	0.79	45.4	-122	
1231	7.02	14.86	0.364	0.79	35.8	-122	
1231.5	7.02	14.86	0.362	0.77	33.6	-123	
1232	7.02	14.9	0.362	0.76	35.8	-124	
1232.5	7.02	14.88	0.361	0.77	37.0	-124	
1233	7.02	14.9	0.359	0.76	35.8	-125	7.10

## **APPENDIX H**

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### **SOIL SAMPLE ANALYTICAL SUMMARY SHEETS**

**Hampton-Clarke, Inc.**  
**veritech laboratories**

175 Route 46 West, Unit D HC  
Fairfield, NJ 07004  
(973) 244-9770  
Federal ID: 222679402  
0001

**Paulus, Sokolowski & Sartor, Inc.**

**Format: NYDOH-CatB**

**Project: Far Rockaway Former**

**PO Number:**

Samples submitted on: 12/3/2002

AB74133	AB74156
AB74134	AB74157
AB74135	AB74158
AB74136	AB74159
AB74137	
AB74138	
AB74139	
AB74140	
AB74141	
AB74142	
AB74143	
AB74144	
AB74145	
AB74146	
AB74147	
AB74148	
AB74149	
AB74150	
AB74151	
AB74152	
AB74153	
AB74154	
AB74155	

**Date: 12/30/2002**

**HCI Project: 12031812**

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

\_\_\_\_\_  
Robin Cousineau - Quality Assurance Director

Or

  
Stanley Gilewicz - Laboratory Director

**CT #: PH-0671**

**MA #: NJ386**

**NJ #: 14622**

**NY #: 11408**

**PA #: 68-463**

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# SDG Narrative

HC 0003

Project: PSS

Job: Far Rockaway Former MGP

Hampton-Clarke, Inc. (HCI) received the following PANYNJ samples on December 3, 2002:

PANYNJ #	HCI #	Type	Analysis
FRSS-12	AB74133	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FR11-11	AB74134	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-09	AB74135	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-08A	AB74136	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-08B	AB74137	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FB120202	AB74138	Aqueous	VO15-8260, BNA25-8270, TAL-metals, PCB, Pesticides, Total Cyanide
FRSS-13	AB74139	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-15	AB74140	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-01	AB74141	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-01 MS	AB74142	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-03A	AB74143	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-03B	AB74144	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-03	AB74145	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-05	AB74146	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-07	AB74147	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-08	AB74148	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-06	AB74149	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-04	AB74150	Soil	VO15-8260, BNA25-8270, TAL-metals, PCB, Pesticides, Total Cyanide
FRSS-02	AB74151	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-14	AB74152	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSS-01 MSD	AB74153	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-02A	AB74154	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-02B	AB74155	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-10A	AB74156	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
FRSB-10B	AB74157	Soil	VO15-8260, BN15-8270, RCRA-metals, Total Cyanide
STB120202	AB74158	Aqueous	VO15-8260
WTB120202	AB74159	Aqueous	VO15-8260

Problems associated with these analyses are as follows:

## Volatiles:

Methylene chloride was recovered in method blanks FA8078, FA8122 and FA8164a and in samples AB74133-142, 144-157 as a result of possible laboratory contamination.

Sample AB74143 was run at a 250x dilution.

Chlorobenzene was recovered below QC criteria in the MS (58%). All criteria was met in the MBS and MSD. The RPD for Chlorobenzene was also outside QC criteria.

There were no other problems associated with this analysis.

## Semi-Volatiles:

Samples AB74135, AB74141, AB74142 and AB74153 were run at a 3 times dilution.

Sample AB74143 was run at a 120 times dilution.

Sample AB74147 was run at a 2 times dilution.

Phthalates were recovered in method blank SMB1858, SMB1859 and WMB1750 and in samples AB74138, AB74135-AB74137, AB74144, AB74147, AB74148 and AB74154-AB74157 as a result of possible laboratory contamination.

The MBS from batch 1859 was recovered above QC criteria for 2,4-Dinitrotoluene (100%).

The MSD from batch 1859 was recovered below QC criteria for N-Nitroso-di-n-propylamine (35%). The RPD between the MS and MSD from batch 1859 was also above QC criteria for N-Nitroso-di-n-propylamine (43%). The MS and MBS from batch 1859 met all QC criteria for N-Nitroso-di-n-propylamine.

There were no other problems associated with this analysis.

#### PCBs:

There were no problems associated with this analysis.

#### Pesticides:

The MS was recovered above QC criteria for Dieldrin (389%). The RPD between the MS and MSD was also above QC criteria for Dieldrin (61%). The MSD and MBS met all QC criteria for Dieldrin.

The MS and MSD were recovered above QC criteria for p,p'-DDT (741% and 174%). The RPD between the MS and MSD was also above QC criteria for p,p'-DDT (62%). The MBS met all QC criteria for p,p'-DDT.

The RPD between the MS and MSD was above QC criteria for Aldrin (45%). The MBS, MS and MSD met all QC criteria.

There were no other problems associated with this analysis.

#### Metals:

Initial QC from batch 4269 was recovered outside of QC criteria for all compounds due to matrix interference. QC from this batch was therefore re-prepared to confirm interferences.

The MS and MSD from batch 4371 were recovered outside of QC criteria for Ba (127% and 183%), Mn (247% and 167%), Ca (-200% and -170%), Mg (-42% and -33%). The LCS met all QC criteria.

The MS from batch 4371 was recovered outside of QC criteria for Sb (74%). The LCS and MSD met all QC criteria.

The MS and MSD from batch 4369 were recovered outside of QC criteria for Ba (1.3% and 62%). The LCS met all QC criteria.

The MS from batch 4369 was recovered outside of QC criteria for Ca (177%), Mg (141%), Cu (54%), Pb (-14%) and Zn (-20%). The LCS and MSD met all QC criteria.

The MSD from batch 4369 was recovered outside of QC criteria for Mn (213%). The LCS and MS met all QC criteria.

The serial dilution from batch 4371 was recovered outside of QC criteria for Cd (41%), Ni (30%), K (36%) and Na (42%).

The serial dilution from batch 4369 was recovered outside of QC criteria for Ni (18%) and Zn (11%).

The RPD between the sample and sample duplicate from batch 4371 was above QC criteria for Cu (21%) and Mn (25%).

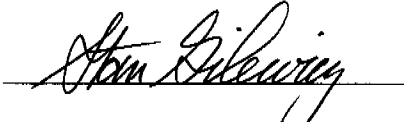
The RPD between the sample and sample duplicate from batch 4369 was above QC criteria for Ca (70%) and Mg (77%).

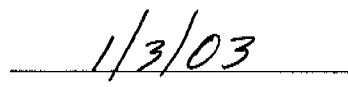
There were no other problems associated with this analysis.

Wet Chemistry:

There were no problems associated with this analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

  
Stan Gilewicz, Laboratory Director

  
Date

## **Data Package Summary Forms**



**Form I**  
ORGANICS VOLATILE REPORT

HC 0007

**Sample Number:** AB74133      **Matrix:** Soil  
**Client Id:** FRSS-12      **Initial Volume:** 5g  
**Data File:** FA8086      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 14:00      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 94  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0053	U
79345	1,1,2,2-Tetrachloroethane	0.0053	U
79005	1,1,2-Trichloroethane	0.0053	U
75343	1,1-Dichloroethane	0.0053	U
75354	1,1-Dichloroethene	0.0053	U
107062	1,2-Dichloroethane	0.0053	U
78875	1,2-Dichloropropane	0.0053	U
78933	2-Butanone	0.027	U
110758	2-Chloroethylvinylether	0.0053	U
591786	2-Hexanone	0.021	U
108101	4-Methyl-2-Pentanone	0.021	U
67641	Acetone	0.021	U
107028	Acrolein	0.016	U
107131	Acrylonitrile	0.0074	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0053	U
75252	Bromoform	0.0053	U
74839	Bromomethane	0.0053	U
75150	Carbon disulfide	0.0053	U
56235	Carbon tetrachloride	0.0053	U
108907	Chlorobenzene	0.0053	U
75003	Chloroethane	0.0053	U
67663	Chloroform	0.0053	U
74873	Chloromethane	0.0053	U
156592	Cis-1,2-Dichloroethene	0.0053	U
10061015	Cis-1,3-Dichloropropene	0.0053	U
124481	Dibromochloromethane	0.0053	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0021	U
75092	Methylene chloride	0.0053	0.0047 JB
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0053	U
108883	Toluene	0.0011	0.0071
156605	Trans-1,2-Dichloroethene	0.0053	U
10061026	Trans-1,3-Dichloropropene	0.0053	U
79016	Trichloroethene	0.0053	U
75014	Vinyl chloride	0.0053	U

**Total Target Concentration 0.012**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 00008

<i>Sample Number:</i> AB74133	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-12	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8086	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 14:00	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 94

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	12.580	0.0033 J $\beta$

*Total Tentatively Identified Concentration*      0.0033

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form I**  
ORGANICS VOLATILE REPORT

HC 0009

**Sample Number:** AB74134      **Matrix:** Soil  
**Client Id:** FRSS-11      **Initial Volume:** 5g  
**Data File:** FA8087      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 14:26      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 86  
**Column:** Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0058	U
79345	1,1,2,2-Tetrachloroethane	0.0058	U
79005	1,1,2-Trichloroethane	0.0058	U
75343	1,1-Dichloroethane	0.0058	U
75354	1,1-Dichloroethene	0.0058	U
107062	1,2-Dichloroethane	0.0058	U
78875	1,2-Dichloropropane	0.0058	U
78933	2-Butanone	0.029	U
110758	2-Chloroethylvinylether	0.0058	U
591786	2-Hexanone	0.023	U
108101	4-Methyl-2-Pentanone	0.023	U
67641	Acetone	0.023	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0081	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0058	U
75252	Bromoform	0.0058	U
74839	Bromomethane	0.0058	U
75150	Carbon disulfide	0.0058	U
56235	Carbon tetrachloride	0.0058	U
108907	Chlorobenzene	0.0058	U
75003	Chloroethane	0.0058	U
67663	Chloroform	0.0058	U
74873	Chloromethane	0.0058	U
156592	Cis-1,2-Dichloroethene	0.0058	U
10061015	Cis-1,3-Dichloropropene	0.0058	U
124481	Dibromochloromethane	0.0058	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0023	U
75092	Methylene chloride	0.0058	0.0030 JB
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0058	U
108883	Toluene	0.0012	0.0022
156605	Trans-1,2-Dichloroethene	0.0058	U
10061026	Trans-1,3-Dichloropropene	0.0058	U
79016	Trichloroethene	0.0058	U
75014	Vinyl chloride	0.0058	U

**Total Target Concentration 0.0052**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

*Formle/1f*  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0010

<i>Sample Number:</i> AB74134	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-11	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8087	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 14:26	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 86

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	1.660	0.0036 <i>J</i>
2		unknown	12.580	0.0053 <i>J B</i>

*Total Tentatively Identified Concentration*      0.0089

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0011

Sample Number: AB74135 Matrix: Soil  
Client Id: FRSB-09 Initial Volume: 5g  
Data File: FA8088 Final Volume: NA  
Date Analyzed: 6 Dec 2002 14:51 Dilution Factor: 1  
Date Received/Extracted: 12/3/2002-NA Percent Solids: 72  
Column: Supelco 105 m vocol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0069	U
79345	1,1,2,2-Tetrachloroethane	0.0069	U
79005	1,1,2-Trichloroethane	0.0069	U
75343	1,1-Dichloroethane	0.0069	U
75354	1,1-Dichloroethene	0.0069	U
107062	1,2-Dichloroethane	0.0069	U
78875	1,2-Dichloropropane	0.0069	U
78933	2-Butanone	0.035	U
110758	2-Chloroethylvinylether	0.0069	U
591786	2-Hexanone	0.028	U
108101	4-Methyl-2-Pentanone	0.028	U
67641	Acetone	0.028	U
107028	Acrolein	0.021	U
107131	Acrylonitrile	0.0096	U
71432	Benzene	0.0014	U
75274	Bromodichloromethane	0.0069	U
75252	Bromoform	0.0069	U
74839	Bromomethane	0.0069	U
75150	Carbon disulfide	0.0069	U
56235	Carbon tetrachloride	0.0069	U
108907	Chlorobenzene	0.0069	U
75003	Chloroethane	0.0069	U
67663	Chloroform	0.0069	U
74873	Chloromethane	0.0069	U
156592	Cis-1,2-Dichloroethene	0.0069	U
10061015	Cis-1,3-Dichloropropene	0.0069	U
124481	Dibromochloromethane	0.0069	U
100414	Ethylbenzene	0.0014	U
108383	M&p-Xylenes	0.0028	U
75092	Methylene chloride	0.0069	0.0051 JB
95476	O-Xylene	0.0014	U
100425	Styrene	0.0014	U
127184	Tetrachloroethene	0.0069	U
108883	Toluene	0.0014	0.0024
156605	Trans-1,2-Dichloroethene	0.0069	U
10061026	Trans-1,3-Dichloropropene	0.0069	U
79016	Trichloroethene	0.0069	U
75014	Vinyl chloride	0.0069	U

**Total Target Concentration 0.0075**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0012

<i>Sample Number:</i> AB74135	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-09	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8088	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 14:51	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 72

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	12.580	0.0056 J B

*Total Tentatively Identified Concentration*      0.0056

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

# Form1

## ORGANICS VOLATILE REPORT

HC 0013

**Sample Number:** AB74136      **Matrix:** Soil  
**Client Id:** FRSB-08A      **Initial Volume:** 5g  
**Data File:** FA8089      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 15:17      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 88  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0057	U
79345	1,1,2,2-Tetrachloroethane	0.0057	U
79005	1,1,2-Trichloroethane	0.0057	U
75343	1,1-Dichloroethane	0.0057	U
75354	1,1-Dichloroethene	0.0057	U
107062	1,2-Dichloroethane	0.0057	U
78875	1,2-Dichloropropane	0.0057	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0057	U
591786	2-Hexanone	0.023	U
108101	4-Methyl-2-Pentanone	0.023	U
67641	Acetone	0.023	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0079	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0057	U
75252	Bromoform	0.0057	U
74839	Bromomethane	0.0057	U
75150	Carbon disulfide	0.0057	U
56235	Carbon tetrachloride	0.0057	U
108907	Chlorobenzene	0.0057	U
75003	Chloroethane	0.0057	U
67663	Chloroform	0.0057	U
74873	Chloromethane	0.0057	U
156592	Cis-1,2-Dichloroethene	0.0057	U
10061015	Cis-1,3-Dichloropropene	0.0057	U
124481	Dibromochloromethane	0.0057	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0023	U
75092	Methylene chloride	0.0057	0.0054 JB
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0057	U
108883	Toluene	0.0011	0.0020
156605	Trans-1,2-Dichloroethene	0.0057	U
10061026	Trans-1,3-Dichloropropene	0.0057	U
79016	Trichloroethene	0.0057	U
75014	Vinyl chloride	0.0057	U

**Total Target Concentration 0.0074**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0014

<b>Sample Number:</b> AB74136	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-08A	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8089	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 6 Dec 2002 15:17	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/2002-NA	<b>Percent Solids:</b> 88

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		unknown	12.580	0.0059 J B

**Total Tentatively Identified Concentration**      0.0059

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\95922.txt



**Form1**  
ORGANICS VOLATILE REPORT

HC 0015

**Sample Number:** AB74137      **Matrix:** Soil  
**Client Id:** FRSB-08B      **Initial Volume:** 5g  
**Data File:** FA8090      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 15:43      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 83  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0060	U
79345	1,1,2,2-Tetrachloroethane	0.0060	U
79005	1,1,2-Trichloroethane	0.0060	U
75343	1,1-Dichloroethane	0.0060	U
75354	1,1-Dichloroethene	0.0060	U
107062	1,2-Dichloroethane	0.0060	U
78875	1,2-Dichloropropane	0.0060	U
78933	2-Butanone	0.030	U
110758	2-Chloroethylvinylether	0.0060	U
591786	2-Hexanone	0.024	U
108101	4-Methyl-2-Pentanone	0.024	U
67641	Acetone	0.024	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0083	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0060	U
75252	Bromoform	0.0060	U
74839	Bromomethane	0.0060	U
75150	Carbon disulfide	0.0060	U
56235	Carbon tetrachloride	0.0060	U
108907	Chlorobenzene	0.0060	U
75003	Chloroethane	0.0060	U
67663	Chloroform	0.0060	U
74873	Chloromethane	0.0060	U
156592	Cis-1,2-Dichloroethene	0.0060	U
10061015	Cis-1,3-Dichloropropene	0.0060	U
124481	Dibromochloromethane	0.0060	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0060	0.0056 JB
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0060	U
108883	Toluene	0.0012	0.0038
156605	Trans-1,2-Dichloroethene	0.0060	U
10061026	Trans-1,3-Dichloropropene	0.0060	U
79016	Trichloroethene	0.0060	U
75014	Vinyl chloride	0.0060	U

**Total Target Concentration 0.0094**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0016

<i>Sample Number:</i> AB74137	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-08B	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8090	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 15:43	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 83

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	12.580	0.0062 J $\beta$

*Total Tentatively Identified Concentration*      0.0062

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0017

**Sample Number:** AB74138      **Matrix:** Water  
**Client Id:** FB120202      **Initial Volume:** 5ml  
**Data File:** FD4999      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 20:18      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	1.1 J
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 1.1**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/If**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0018

<i>Sample Number:</i> AB74138	<i>Matrix:</i> Water
<i>Client Id:</i> FB120202	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FD4999	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 20:18	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0019

**Sample Number:** AB74139      **Matrix:** Soil  
**Client Id:** FRSS-13      **Initial Volume:** 5g  
**Data File:** FA8091      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 16:09      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 92  
**Column:** Supelco 105 m vocol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0054	U
79345	1,1,2,2-Tetrachloroethane	0.0054	U
79005	1,1,2-Trichloroethane	0.0054	U
75343	1,1-Dichloroethane	0.0054	U
75354	1,1-Dichloroethene	0.0054	U
107062	1,2-Dichloroethane	0.0054	U
78875	1,2-Dichloropropane	0.0054	U
78933	2-Butanone	0.027	U
110758	2-Chloroethylvinylether	0.0054	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	U
107028	Acrolein	0.016	U
107131	Acrylonitrile	0.0075	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0054	U
75252	Bromoform	0.0054	U
74839	Bromomethane	0.0054	U
75150	Carbon disulfide	0.0054	U
56235	Carbon tetrachloride	0.0054	U
108907	Chlorobenzene	0.0054	U
75003	Chloroethane	0.0054	U
67663	Chloroform	0.0054	U
74873	Chloromethane	0.0054	U
156592	Cis-1,2-Dichloroethene	0.0054	U
10061015	Cis-1,3-Dichloropropene	0.0054	U
124481	Dibromochloromethane	0.0054	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0054	0.0037 JB
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0054	U
108883	Toluene	0.0011	0.0015
156605	Trans-1,2-Dichloroethene	0.0054	U
10061026	Trans-1,3-Dichloropropene	0.0054	U
79016	Trichloroethene	0.0054	U
75014	Vinyl chloride	0.0054	U

**Total Target Concentration 0.0052**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Form 1e/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0020

<i>Sample Number:</i> AB74139	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-13	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8091	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 16:09	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 92

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0021

**Sample Number:** AB74140      **Matrix:** Soil  
**Client Id:** FRSS-15      **Initial Volume:** 5g  
**Data File:** FA8092      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 16:35      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 92  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0054	U
79345	1,1,2,2-Tetrachloroethane	0.0054	U
79005	1,1,2-Trichloroethane	0.0054	U
75343	1,1-Dichloroethane	0.0054	U
75354	1,1-Dichloroethene	0.0054	U
107062	1,2-Dichloroethane	0.0054	U
78875	1,2-Dichloropropane	0.0054	U
78933	2-Butanone	0.027	U
110758	2-Chloroethylvinylether	0.0054	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	U
107028	Acrolein	0.016	U
107131	Acrylonitrile	0.0075	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0054	U
75252	Bromoform	0.0054	U
74839	Bromomethane	0.0054	U
75150	Carbon disulfide	0.0054	U
56235	Carbon tetrachloride	0.0054	U
108907	Chlorobenzene	0.0054	U
75003	Chloroethane	0.0054	U
67663	Chloroform	0.0054	U
74873	Chloromethane	0.0054	U
156592	Cis-1,2-Dichloroethene	0.0054	U
10061015	Cis-1,3-Dichloropropene	0.0054	U
124481	Dibromochloromethane	0.0054	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0054	0.0035 JB
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0054	U
108883	Toluene	0.0011	U
156605	Trans-1,2-Dichloroethene	0.0054	U
10061026	Trans-1,3-Dichloropropene	0.0054	U
79016	Trichloroethene	0.0054	U
75014	Vinyl chloride	0.0054	U

**Total Target Concentration 0.0035**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0022

<i>Sample Number:</i> AB74140	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-15	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8092	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 16:35	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 92

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt



**Form I**  
ORGANICS VOLATILE REPORT

HC 0023

Sample Number: AB74141      Matrix: Soil  
Client Id: FRSS-01      Initial Volume: 5g  
Data File: FA8082      Final Volume: NA  
Date Analyzed: 6 Dec 2002 12:02      Dilution Factor: 1  
Date Received/Extracted: 12/3/2002-NA      Percent Solids: 89  
Column: Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0056	U
79345	1,1,2,2-Tetrachloroethane	0.0056	U
79005	1,1,2-Trichloroethane	0.0056	U
75343	1,1-Dichloroethane	0.0056	U
75354	1,1-Dichloroethene	0.0056	U
107062	1,2-Dichloroethane	0.0056	U
78875	1,2-Dichloropropane	0.0056	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0056	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	0.037
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0078	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0056	U
75252	Bromoform	0.0056	U
74839	Bromomethane	0.0056	U
75150	Carbon disulfide	0.0056	U
56235	Carbon tetrachloride	0.0056	U
108907	Chlorobenzene	0.0056	U
75003	Chloroethane	0.0056	U
67663	Chloroform	0.0056	U
74873	Chloromethane	0.0056	U
156592	Cis-1,2-Dichloroethene	0.0056	U
10061015	Cis-1,3-Dichloropropene	0.0056	U
124481	Dibromochloromethane	0.0056	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0056	0.0056 B
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0056	U
108883	Toluene	0.0011	0.0050
156605	Trans-1,2-Dichloroethene	0.0056	U
10061026	Trans-1,3-Dichloropropene	0.0056	U
79016	Trichloroethene	0.0056	U
75014	Vinyl chloride	0.0056	U

**Total Target Concentration 0.048**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\95922.txt

*Form 1e/1f*  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0024

<i>Sample Number:</i> AB74141	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-01	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8082	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 12:02	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 89

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	1.730	0.0044 <i>J</i>
2		unknown	12.580	0.0073 <i>J</i> $\beta$

*Total Tentatively Identified Concentration*      0.012

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
**ORGANICS VOLATILE REPORT**

**Sample Number:** AB74142(MS:AB7) **Matrix:** Soil  
**Client Id:** FRSS-01 MS **Initial Volume:** 5g  
**Data File:** FA8083 **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 12:42 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA **Percent Solids:** 90  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0025

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0056	0.054
79345	1,1,2,2-Tetrachloroethane	0.0056	0.044
79005	1,1,2-Trichloroethane	0.0056	0.047
75343	1,1-Dichloroethane	0.0056	0.043
75354	1,1-Dichloroethene	0.0056	0.045
107062	1,2-Dichloroethane	0.0056	0.048
78875	1,2-Dichloropropane	0.0056	0.046
78933	2-Butanone	0.028	0.068
110758	2-Chloroethylvinylether	0.0056	0.020
591786	2-Hexanone	0.022	0.058
108101	4-Methyl-2-Pentanone	0.022	0.049
67641	Acetone	0.022	0.56
107028	Acrolein	0.017	0.35
107131	Acrylonitrile	0.0077	0.23
71432	Benzene	0.0011	0.046
75274	Bromodichloromethane	0.0056	0.051
75252	Bromoform	0.0056	0.049
74839	Bromomethane	0.0056	0.059
75150	Carbon disulfide	0.0056	0.037
56235	Carbon tetrachloride	0.0056	0.051
108907	Chlorobenzene	0.0056	0.038
75003	Chloroethane	0.0056	0.054
67663	Chloroform	0.0056	0.048
74873	Chloromethane	0.0056	0.051
156592	Cis-1,2-Dichloroethene	0.0056	0.046
10061015	Cis-1,3-Dichloropropene	0.0056	0.035
124481	Dibromochloromethane	0.0056	0.048
100414	Ethylbenzene	0.0011	0.040
108383	M&p-Xylenes	0.0022	0.083
75092	Methylene chloride	0.0056	0.048 B
95476	O-Xylene	0.0011	0.044
100425	Styrene	0.0011	0.039
127184	Tetrachloroethene	0.0056	0.040
108883	Toluene	0.0011	0.045
156605	Trans-1,2-Dichloroethene	0.0056	0.038
10061026	Trans-1,3-Dichloropropene	0.0056	0.034
79016	Trichloroethene	0.0056	0.041
75014	Vinyl chloride	0.0056	0.048

**Total Target Concentration 2.8**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0026

<b>Sample Number:</b> AB74142(MS:AB7414	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSS-01 MS	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8083	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 6 Dec 2002 12:42	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/2002-NA	<b>Percent Solids:</b> 90

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		unknown	12.580	0.0039 <i>J</i> $\beta$

**Total Tentatively Identified Concentration**      0.0039

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0027

**Sample Number:** AB74143(400ul)      **Matrix:** Soil  
**Client Id:** FRSB-03A      **Initial Volume:** 5ml  
**Data File:** FB8151      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 20:57      **Dilution Factor:** 250  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 87  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	1.4	U
79345	1,1,2,2-Tetrachloroethane	1.4	U
79005	1,1,2-Trichloroethane	1.4	U
75343	1,1-Dichloroethane	1.4	U
75354	1,1-Dichloroethene	1.4	U
107062	1,2-Dichloroethane	1.4	U
78875	1,2-Dichloropropane	1.4	U
78933	2-Butanone	7.2	U
110758	2-Chloroethylvinylether	1.4	U
591786	2-Hexanone	5.7	U
108101	4-Methyl-2-Pentanone	5.7	U
67641	Acetone	5.7	U
107028	Acrolein	4.3	U
107131	Acrylonitrile	2.0	U
71432	Benzene	0.29	U
75274	Bromodichloromethane	1.4	U
75252	Bromoform	1.4	U
74839	Bromomethane	1.4	U
75150	Carbon disulfide	1.4	U
56235	Carbon tetrachloride	1.4	U
108907	Chlorobenzene	1.4	U
75003	Chloroethane	1.4	U
67663	Chloroform	1.4	U
74873	Chloromethane	1.4	U
156592	Cis-1,2-Dichloroethene	1.4	U
10061015	Cis-1,3-Dichloropropene	1.4	U
124481	Dibromochloromethane	1.4	U
100414	Ethylbenzene	0.29	33
108383	M&p-Xylenes	0.57	38
75092	Methylene chloride	1.4	U
95476	O-Xylene	0.29	22
100425	Styrene	0.29	U
127184	Tetrachloroethene	1.4	U
108883	Toluene	0.29	0.53
156605	Trans-1,2-Dichloroethene	1.4	U
10061026	Trans-1,3-Dichloropropene	1.4	U
79016	Trichloroethene	1.4	U
75014	Vinyl chloride	1.4	U

**Total Target Concentration 94**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/lf**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0028

<i>Sample Number:</i> AB74143(400ul)	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-03A	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FB8151	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 10 Dec 2002 20:57	<i>Dilution Factor:</i> 250
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 87

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		column bleed	2.400	5.6 <i>J</i>
2		unknown	10.080	4.2 <i>J</i>
3	5911-04-6	Nonane, 3-methyl-	10.870	4.9 <i>J</i>
4	816-79-5	2-Pentene, 3-ethyl-	10.990	10 <i>J</i>
5	98-82-8	Benzene, (1-methylethyl)-	11.090	30 <i>J</i>
6		unknown	11.140	10 <i>J</i>
7	611-14-3	Benzene, 1-ethyl-2-methyl-	11.470	22 <i>J</i>
8	526-73-8	Benzene, 1,2,3-trimethyl-	11.520	4.8 <i>J</i>
9	526-73-8	Benzene, 1,2,3-trimethyl-	11.820	15 <i>J</i>
10	300-57-2	Benzene, 2-propenyl-	12.330	11 <i>J</i>
11	673-32-5	Benzene, 1-propynyl-	12.500	5.8 <i>J</i>
12	768-49-0	Benzene, (2-methyl-1-propenyl)-	12.780	3.5 <i>J</i>
13	767-59-9	1H-Indene, 1-methyl-	13.520	3.6 <i>J</i>
14	622-76-4	Benzene, 1-butyryl-	13.620	3.8 <i>J</i>
15	91-20-3	Naphthalene	14.140	36 <i>J</i>

*Total Tentatively Identified Concentration*      170

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0029

**Sample Number:** AB74144      **Matrix:** Soil  
**Client Id:** FRSB-03B      **Initial Volume:** 5g  
**Data File:** FA8128      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 17:59      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 82  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0061	U
79345	1,1,2,2-Tetrachloroethane	0.0061	U
79005	1,1,2-Trichloroethane	0.0061	U
75343	1,1-Dichloroethane	0.0061	U
75354	1,1-Dichloroethene	0.0061	U
107062	1,2-Dichloroethane	0.0061	U
78875	1,2-Dichloropropane	0.0061	U
78933	2-Butanone	0.030	U
110758	2-Chloroethylvinylether	0.0061	U
591786	2-Hexanone	0.024	U
108101	4-Methyl-2-Pentanone	0.024	U
67641	Acetone	0.024	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0085	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0061	U
75252	Bromoform	0.0061	U
74839	Bromomethane	0.0061	U
75150	Carbon disulfide	0.0061	U
56235	Carbon tetrachloride	0.0061	U
108907	Chlorobenzene	0.0061	U
75003	Chloroethane	0.0061	U
67663	Chloroform	0.0061	U
74873	Chloromethane	0.0061	U
156592	Cis-1,2-Dichloroethene	0.0061	U
10061015	Cis-1,3-Dichloropropene	0.0061	U
124481	Dibromochloromethane	0.0061	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0061	0.0061 JB
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0061	U
108883	Toluene	0.0012	0.0025
156605	Trans-1,2-Dichloroethene	0.0061	U
10061026	Trans-1,3-Dichloropropene	0.0061	U
79016	Trichloroethene	0.0061	U
75014	Vinyl chloride	0.0061	U

**Total Target Concentration 0.0086**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0030

*Sample Number:* AB74144      *Matrix:* Soil  
*Client Id:* FRSB-03B      *Initial Volume:* 5g  
*Data File:* FA8128      *Final Volume:* NA  
*Date Analyzed:* 9 Dec 2002 17:59      *Dilution Factor:* 1  
*Date Received/Extracted:* 12/3/2002-NA      *Percent Solids:* 82

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt



**Form1**  
ORGANICS VOLATILE REPORT

HC 0031

**Sample Number:** AB74145      **Matrix:** Soil  
**Client Id:** FRSS-03      **Initial Volume:** 5g  
**Data File:** FA8129      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 18:25      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 90  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0056	U
79345	1,1,2,2-Tetrachloroethane	0.0056	U
79005	1,1,2-Trichloroethane	0.0056	U
75343	1,1-Dichloroethane	0.0056	U
75354	1,1-Dichloroethene	0.0056	U
107062	1,2-Dichloroethane	0.0056	U
78875	1,2-Dichloropropane	0.0056	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0056	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0077	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0056	U
75252	Bromoform	0.0056	U
74839	Bromomethane	0.0056	U
75150	Carbon disulfide	0.0056	U
56235	Carbon tetrachloride	0.0056	U
108907	Chlorobenzene	0.0056	U
75003	Chloroethane	0.0056	U
67663	Chloroform	0.0056	U
74873	Chloromethane	0.0056	U
156592	Cis-1,2-Dichloroethene	0.0056	U
10061015	Cis-1,3-Dichloropropene	0.0056	U
124481	Dibromochloromethane	0.0056	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0056	0.0073 B
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0056	U
108883	Toluene	0.0011	0.0073
156605	Trans-1,2-Dichloroethene	0.0056	U
10061026	Trans-1,3-Dichloropropene	0.0056	U
79016	Trichloroethene	0.0056	U
75014	Vinyl chloride	0.0056	U

**Total Target Concentration 0.015**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0032

<i>Sample Number:</i> AB74145	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-03	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8129	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 9 Dec 2002 18:25	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 90

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	12.560	0.0073 <i>J</i>

*Total Tentatively Identified Concentration*      0.0073

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0033

**Sample Number:** AB74146      **Matrix:** Soil  
**Client Id:** FRSS-05      **Initial Volume:** 5g  
**Data File:** FA8130      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 18:51      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 97  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0052	U
79345	1,1,2,2-Tetrachloroethane	0.0052	U
79005	1,1,2-Trichloroethane	0.0052	U
75343	1,1-Dichloroethane	0.0052	U
75354	1,1-Dichloroethene	0.0052	U
107062	1,2-Dichloroethane	0.0052	U
78875	1,2-Dichloropropane	0.0052	U
78933	2-Butanone	0.026	U
110758	2-Chloroethylvinylether	0.0052	U
591786	2-Hexanone	0.021	U
108101	4-Methyl-2-Pentanone	0.021	U
67641	Acetone	0.021	U
107028	Acrolein	0.015	U
107131	Acrylonitrile	0.0071	U
71432	Benzene	0.0010	U
75274	Bromodichloromethane	0.0052	U
75252	Bromoform	0.0052	U
74839	Bromomethane	0.0052	U
75150	Carbon disulfide	0.0052	U
56235	Carbon tetrachloride	0.0052	U
108907	Chlorobenzene	0.0052	U
75003	Chloroethane	0.0052	U
67663	Chloroform	0.0052	U
74873	Chloromethane	0.0052	U
156592	Cis-1,2-Dichloroethene	0.0052	U
10061015	Cis-1,3-Dichloropropene	0.0052	U
124481	Dibromochloromethane	0.0052	U
100414	Ethylbenzene	0.0010	U
108383	M&p-Xylenes	0.0021	U
75092	Methylene chloride	0.0052	0.0053 B
95476	O-Xylene	0.0010	U
100425	Styrene	0.0010	U
127184	Tetrachloroethene	0.0052	U
108883	Toluene	0.0010	0.0066
156605	Trans-1,2-Dichloroethene	0.0052	U
10061026	Trans-1,3-Dichloropropene	0.0052	U
79016	Trichloroethene	0.0052	U
75014	Vinyl chloride	0.0052	U

**Total Target Concentration 0.012**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0034

<i>Sample Number:</i> AB74146	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-05	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8130	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 9 Dec 2002 18:51	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 97

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0035

**Sample Number:** AB74147      **Matrix:** Soil  
**Client Id:** FRSS-07      **Initial Volume:** 5g  
**Data File:** FA8131      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 19:17      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 97  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0052	U
79345	1,1,2,2-Tetrachloroethane	0.0052	U
79005	1,1,2-Trichloroethane	0.0052	U
75343	1,1-Dichloroethane	0.0052	U
75354	1,1-Dichloroethene	0.0052	U
107062	1,2-Dichloroethane	0.0052	U
78875	1,2-Dichloropropane	0.0052	U
78933	2-Butanone	0.026	U
110758	2-Chloroethylvinylether	0.0052	U
591786	2-Hexanone	0.021	U
108101	4-Methyl-2-Pentanone	0.021	U
67641	Acetone	0.021	U
107028	Acrolein	0.015	U
107131	Acrylonitrile	0.0071	U
71432	Benzene	0.0010	U
75274	Bromodichloromethane	0.0052	U
75252	Bromoform	0.0052	U
74839	Bromomethane	0.0052	U
75150	Carbon disulfide	0.0052	U
56235	Carbon tetrachloride	0.0052	U
108907	Chlorobenzene	0.0052	U
75003	Chloroethane	0.0052	U
67663	Chloroform	0.0052	U
74873	Chloromethane	0.0052	U
156592	Cis-1,2-Dichloroethene	0.0052	U
10061015	Cis-1,3-Dichloropropene	0.0052	U
124481	Dibromochloromethane	0.0052	U
100414	Ethylbenzene	0.0010	U
108383	M&p-Xylenes	0.0021	U
75092	Methylene chloride	0.0052	0.0069 B
95476	O-Xylene	0.0010	U
100425	Styrene	0.0010	U
127184	Tetrachloroethene	0.0052	U
108883	Toluene	0.0010	0.013
156605	Trans-1,2-Dichloroethene	0.0052	U
10061026	Trans-1,3-Dichloropropene	0.0052	U
79016	Trichloroethene	0.0052	U
75014	Vinyl chloride	0.0052	U

**Total Target Concentration 0.02**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0036

<i>Sample Number:</i> AB74147	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-07	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8131	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 9 Dec 2002 19:17	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 97

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0037

**Sample Number:** AB74148      **Matrix:** Soil  
**Client Id:** FRSS-08      **Initial Volume:** 5g  
**Data File:** FA8132      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 19:43      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 89  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0056	U
79345	1,1,2,2-Tetrachloroethane	0.0056	U
79005	1,1,2-Trichloroethane	0.0056	U
75343	1,1-Dichloroethane	0.0056	U
75354	1,1-Dichloroethene	0.0056	U
107062	1,2-Dichloroethane	0.0056	U
78875	1,2-Dichloropropane	0.0056	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0056	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0078	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0056	U
75252	Bromoform	0.0056	U
74839	Bromomethane	0.0056	U
75150	Carbon disulfide	0.0056	U
56235	Carbon tetrachloride	0.0056	U
108907	Chlorobenzene	0.0056	U
75003	Chloroethane	0.0056	U
67663	Chloroform	0.0056	U
74873	Chloromethane	0.0056	U
156592	Cis-1,2-Dichloroethene	0.0056	U
10061015	Cis-1,3-Dichloropropene	0.0056	U
124481	Dibromochloromethane	0.0056	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0056	0.0088 B
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0056	U
108883	Toluene	0.0011	0.0075
156605	Trans-1,2-Dichloroethene	0.0056	U
10061026	Trans-1,3-Dichloropropene	0.0056	U
79016	Trichloroethene	0.0056	U
75014	Vinyl chloride	0.0056	U

**Total Target Concentration 0.016**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0038

<i>Sample Number:</i> AB74148	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-08	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8132	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 9 Dec 2002 19:43	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 89

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt



**Form1**  
ORGANICS VOLATILE REPORT

HC 0039

**Sample Number:** AB74149      **Matrix:** Soil  
**Client Id:** FRSS-06      **Initial Volume:** 5g  
**Data File:** FA8133      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 20:09      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 91  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0055	U
79345	1,1,2,2-Tetrachloroethane	0.0055	U
79005	1,1,2-Trichloroethane	0.0055	U
75343	1,1-Dichloroethane	0.0055	U
75354	1,1-Dichloroethene	0.0055	U
107062	1,2-Dichloroethane	0.0055	U
78875	1,2-Dichloropropane	0.0055	U
78933	2-Butanone	0.027	U
110758	2-Chloroethylvinylether	0.0055	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	U
107028	Acrolein	0.016	U
107131	Acrylonitrile	0.0076	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0055	U
75252	Bromoform	0.0055	U
74839	Bromomethane	0.0055	U
75150	Carbon disulfide	0.0055	U
56235	Carbon tetrachloride	0.0055	U
108907	Chlorobenzene	0.0055	U
75003	Chloroethane	0.0055	U
67663	Chloroform	0.0055	U
74873	Chloromethane	0.0055	U
156592	Cis-1,2-Dichloroethene	0.0055	U
10061015	Cis-1,3-Dichloropropene	0.0055	U
124481	Dibromochloromethane	0.0055	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0055	0.0043 JB
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0055	U
108883	Toluene	0.0011	0.0016
156605	Trans-1,2-Dichloroethene	0.0055	U
10061026	Trans-1,3-Dichloropropene	0.0055	U
79016	Trichloroethene	0.0055	U
75014	Vinyl chloride	0.0055	U

**Total Target Concentration 0.0059**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0040

<i>Sample Number:</i> AB74149	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-06	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8133	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 9 Dec 2002 20:09	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 91

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0041

**Sample Number:** AB74150      **Matrix:** Soil  
**Client Id:** FRSS-04      **Initial Volume:** 5g  
**Data File:** FA8134      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 20:34      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 90  
**Column:** Supelco 105 m vocol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0056	U
79345	1,1,2,2-Tetrachloroethane	0.0056	U
79005	1,1,2-Trichloroethane	0.0056	U
75343	1,1-Dichloroethane	0.0056	U
75354	1,1-Dichloroethene	0.0056	U
107062	1,2-Dichloroethane	0.0056	U
78875	1,2-Dichloropropane	0.0056	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0056	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0077	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0056	U
75252	Bromoform	0.0056	U
74839	Bromomethane	0.0056	U
75150	Carbon disulfide	0.0056	U
56235	Carbon tetrachloride	0.0056	U
108907	Chlorobenzene	0.0056	U
75003	Chloroethane	0.0056	U
67663	Chloroform	0.0056	U
74873	Chloromethane	0.0056	U
156592	Cis-1,2-Dichloroethene	0.0056	U
10061015	Cis-1,3-Dichloropropene	0.0056	U
124481	Dibromochloromethane	0.0056	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0056	0.0075 B
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0056	U
108883	Toluene	0.0011	0.0040
156605	Trans-1,2-Dichloroethene	0.0056	U
10061026	Trans-1,3-Dichloropropene	0.0056	U
79016	Trichloroethene	0.0056	U
75014	Vinyl chloride	0.0056	U

**Total Target Concentration 0.011**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/If**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0042

<i>Sample Number:</i> AB74150	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-04	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8134	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 9 Dec 2002 20:34	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 90

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0043

**Sample Number:** AB74151      **Matrix:** Soil  
**Client Id:** FRSS-02      **Initial Volume:** 5g  
**Data File:** FA8135      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 21:00      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 90  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0056	U
79345	1,1,2,2-Tetrachloroethane	0.0056	U
79005	1,1,2-Trichloroethane	0.0056	U
75343	1,1-Dichloroethane	0.0056	U
75354	1,1-Dichloroethene	0.0056	U
107062	1,2-Dichloroethane	0.0056	U
78875	1,2-Dichloropropane	0.0056	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0056	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0077	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0056	U
75252	Bromoform	0.0056	U
74839	Bromomethane	0.0056	U
75150	Carbon disulfide	0.0056	U
56235	Carbon tetrachloride	0.0056	U
108907	Chlorobenzene	0.0056	U
75003	Chloroethane	0.0056	U
67663	Chloroform	0.0056	U
74873	Chloromethane	0.0056	U
156592	Cis-1,2-Dichloroethene	0.0056	U
10061015	Cis-1,3-Dichloropropene	0.0056	U
124481	Dibromochloromethane	0.0056	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0056	0.0069 B
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0056	U
108883	Toluene	0.0011	0.0061 U
156605	Trans-1,2-Dichloroethene	0.0056	U
10061026	Trans-1,3-Dichloropropene	0.0056	U
79016	Trichloroethene	0.0056	U
75014	Vinyl chloride	0.0056	U

**Total Target Concentration 0.013**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0044

<i>Sample Number:</i> AB74151	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-02	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8135	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 9 Dec 2002 21:00	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 90

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0045

**Sample Number:** AB74152      **Matrix:** Soil  
**Client Id:** FRSS-14      **Initial Volume:** 5g  
**Data File:** FA8136      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 21:26      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 86  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0058	U
79345	1,1,2,2-Tetrachloroethane	0.0058	U
79005	1,1,2-Trichloroethane	0.0058	U
75343	1,1-Dichloroethane	0.0058	U
75354	1,1-Dichloroethene	0.0058	U
107062	1,2-Dichloroethane	0.0058	U
78875	1,2-Dichloropropane	0.0058	U
78933	2-Butanone	0.029	U
110758	2-Chloroethylvinylether	0.0058	U
591786	2-Hexanone	0.023	U
108101	4-Methyl-2-Pentanone	0.023	U
67641	Acetone	0.023	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0081	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0058	U
75252	Bromoform	0.0058	U
74839	Bromomethane	0.0058	U
75150	Carbon disulfide	0.0058	U
56235	Carbon tetrachloride	0.0058	U
108907	Chlorobenzene	0.0058	U
75003	Chloroethane	0.0058	U
67663	Chloroform	0.0058	U
74873	Chloromethane	0.0058	U
156592	Cis-1,2-Dichloroethene	0.0058	U
10061015	Cis-1,3-Dichloropropene	0.0058	U
124481	Dibromochloromethane	0.0058	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0023	U
75092	Methylene chloride	0.0058	0.0073 B
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0058	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0058	U
10061026	Trans-1,3-Dichloropropene	0.0058	U
79016	Trichloroethene	0.0058	U
75014	Vinyl chloride	0.0058	U

**Total Target Concentration 0.0073**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
**Tentatively Identified Compounds**

HC 0046

<b>Sample Number:</b> AB74152	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSS-14	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8136	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 9 Dec 2002 21:26	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/2002-NA	<b>Percent Solids:</b> 86

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration</b> mg/Kg
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\95922.txt



**Form1**  
ORGANICS VOLATILE REPORT

HC 0047

**Sample Number:** AB74153(MSD:AB)      **Matrix:** Soil  
**Client Id:** FRSS-01 MSD      **Initial Volume:** 5g  
**Data File:** FA8084      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 13:08      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 91  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0055	0.029
79345	1,1,2,2-Tetrachloroethane	0.0055	0.025
79005	1,1,2-Trichloroethane	0.0055	0.025
75343	1,1-Dichloroethane	0.0055	0.023
75354	1,1-Dichloroethene	0.0055	0.020
107062	1,2-Dichloroethane	0.0055	0.024
78875	1,2-Dichloropropane	0.0055	0.025
78933	2-Butanone	0.027	0.039
110758	2-Chloroethylvinylether	0.0055	0.011
591786	2-Hexanone	0.022	0.029
108101	4-Methyl-2-Pentanone	0.022	0.028
67641	Acetone	0.022	0.22
107028	Acrolein	0.016	0.11
107131	Acrylonitrile	0.0076	0.10
71432	Benzene	0.0011	0.025
75274	Bromodichloromethane	0.0055	0.026
75252	Bromoform	0.0055	0.024
74839	Bromomethane	0.0055	0.038
75150	Carbon disulfide	0.0055	0.016
56235	Carbon tetrachloride	0.0055	0.028
108907	Chlorobenzene	0.0055	0.019
75003	Chloroethane	0.0055	0.034
67663	Chloroform	0.0055	0.026
74873	Chloromethane	0.0055	0.034
156592	Cis-1,2-Dichloroethene	0.0055	0.026
10061015	Cis-1,3-Dichloropropene	0.0055	0.018
124481	Dibromochloromethane	0.0055	0.024
100414	Ethylbenzene	0.0011	0.022
108383	M&p-Xylenes	0.0022	0.043
75092	Methylene chloride	0.0055	0.029 B
95476	O-Xylene	0.0011	0.023
100425	Styrene	0.0011	0.018
127184	Tetrachloroethene	0.0055	0.020
108883	Toluene	0.0011	0.025
156605	Trans-1,2-Dichloroethene	0.0055	0.018
10061026	Trans-1,3-Dichloropropene	0.0055	0.015
79016	Trichloroethene	0.0055	0.020
75014	Vinyl chloride	0.0055	0.031

**Total Target Concentration 1.3**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0048

<i>Sample Number:</i> AB74153(MSD:AB741	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-01 MSD	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8084	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 13:08	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 91

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	12.580	0.0038 J $\beta$

*Total Tentatively Identified Concentration*      0.0038

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0049

**Sample Number:** AB74154      **Matrix:** Soil  
**Client Id:** FRSB-02A      **Initial Volume:** 5g  
**Data File:** FA8140      **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 23:09      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 88  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0057	U
79345	1,1,2,2-Tetrachloroethane	0.0057	U
79005	1,1,2-Trichloroethane	0.0057	U
75343	1,1-Dichloroethane	0.0057	U
75354	1,1-Dichloroethene	0.0057	U
107062	1,2-Dichloroethane	0.0057	U
78875	1,2-Dichloropropane	0.0057	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0057	U
591786	2-Hexanone	0.023	U
108101	4-Methyl-2-Pentanone	0.023	U
67641	Acetone	0.023	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0079	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0057	U
75252	Bromoform	0.0057	U
74839	Bromomethane	0.0057	U
75150	Carbon disulfide	0.0057	U
56235	Carbon tetrachloride	0.0057	U
108907	Chlorobenzene	0.0057	U
75003	Chloroethane	0.0057	U
67663	Chloroform	0.0057	U
74873	Chloromethane	0.0057	U
156592	Cis-1,2-Dichloroethene	0.0057	U
10061015	Cis-1,3-Dichloropropene	0.0057	U
124481	Dibromochloromethane	0.0057	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0023	U
75092	Methylene chloride	0.0057	0.0050 JB
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0057	U
108883	Toluene	0.0011	0.0015
156605	Trans-1,2-Dichloroethene	0.0057	U
10061026	Trans-1,3-Dichloropropene	0.0057	U
79016	Trichloroethene	0.0057	U
75014	Vinyl chloride	0.0057	U

**Total Target Concentration 0.0065**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0050

<i>Sample Number:</i> AB74154	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-02A	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8140	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 9 Dec 2002 23:09	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 88

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	12.570	0.015 J

*Total Tentatively Identified Concentration*      0.015

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0051

**Sample Number:** AB74155      **Matrix:** Soil  
**Client Id:** FRSB-02B      **Initial Volume:** 5g  
**Data File:** FA8165      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 16:54      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 80  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethene	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
78933	2-Butanone	0.031	U
110758	2-Chloroethylvinylether	0.0062	U
591786	2-Hexanone	0.025	U
108101	4-Methyl-2-Pentanone	0.025	U
67641	Acetone	0.025	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0087	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
75150	Carbon disulfide	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
156592	Cis-1,2-Dichloroethene	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	0.011 B
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	0.0017
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

**Total Target Concentration 0.013**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/If**  
ORGANICS VOLATILE REPORT  
**Tentatively Identified Compounds**

HC 0052

<i>Sample Number:</i> AB74155	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-02B	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8165	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 10 Dec 2002 16:54	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 80

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration      0**

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

# Form1

## ORGANICS VOLATILE REPORT

HC 0053

**Sample Number:** AB74156      **Matrix:** Soil  
**Client Id:** FRSB-10A      **Initial Volume:** 5g  
**Data File:** FA8166      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 17:20      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 83  
**Column:** Supelco 105 m volcol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0060	U
79345	1,1,2,2-Tetrachloroethane	0.0060	U
79005	1,1,2-Trichloroethane	0.0060	U
75343	1,1-Dichloroethane	0.0060	U
75354	1,1-Dichloroethene	0.0060	U
107062	1,2-Dichloroethane	0.0060	U
78875	1,2-Dichloropropane	0.0060	U
78933	2-Butanone	0.030	U
110758	2-Chloroethylvinylether	0.0060	U
591786	2-Hexanone	0.024	U
108101	4-Methyl-2-Pentanone	0.024	U
67641	Acetone	0.024	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0083	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0060	U
75252	Bromoform	0.0060	U
74839	Bromomethane	0.0060	U
75150	Carbon disulfide	0.0060	U
56235	Carbon tetrachloride	0.0060	U
108907	Chlorobenzene	0.0060	U
75003	Chloroethane	0.0060	U
67663	Chloroform	0.0060	U
74873	Chloromethane	0.0060	U
156592	Cis-1,2-Dichloroethene	0.0060	U
10061015	Cis-1,3-Dichloropropene	0.0060	U
124481	Dibromochloromethane	0.0060	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0060	0.0090 B
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0060	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0060	U
10061026	Trans-1,3-Dichloropropene	0.0060	U
79016	Trichloroethene	0.0060	U
75014	Vinyl chloride	0.0060	U

**Total Target Concentration 0.009**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0054

<i>Sample Number:</i> AB74156	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-10A	<i>Initial Volume:</i> 5g
<i>Data File:</i> FA8166	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 10 Dec 2002 17:20	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 83

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt



**Form1**  
ORGANICS VOLATILE REPORT

HC 0055

Sample Number: AB74157 Matrix: Soil  
Client Id: FRSB-10B Initial Volume: 5g  
Data File: FA8139 Final Volume: NA  
Date Analyzed: 9 Dec 2002 22:44 Dilution Factor: 1  
Date Received/Extracted: 12/3/2002-NA Percent Solids: 80  
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethene	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
78933	2-Butanone	0.031	U
110758	2-Chloroethylvinylether	0.0062	U
591786	2-Hexanone	0.025	U
108101	4-Methyl-2-Pentanone	0.025	U
67641	Acetone	0.025	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0087	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
75150	Carbon disulfide	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
156592	Cis-1,2-Dichloroethene	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	0.0059 JB
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	0.0028
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

**Total Target Concentration 0.0087**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

**Formle/1f**  
ORGANICS VOLATILE REPORT  
**Tentatively Identified Compounds**

HC 0056

<b>Sample Number:</b> AB74157	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-10B	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8139	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 9 Dec 2002 22:44	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/2002-NA	<b>Percent Solids:</b> 80

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration</b> mg/Kg
1		unknown	12.570	0.0086 <i>J</i>

**Total Tentatively Identified Concentration**      0.0086

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0057

**Sample Number:** AB74158      **Matrix:** Water  
**Client Id:** STB120202      **Initial Volume:** 5ml  
**Data File:** FD4994      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 17:54      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0058

<i>Sample Number:</i> AB74158	<i>Matrix:</i> Water
<i>Client Id:</i> STB120202	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FD4994	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 17:54	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0059

**Sample Number:** AB74159      **Matrix:** Water  
**Client Id:** WTB120202      **Initial Volume:** 5ml  
**Data File:** FD4996      **Final Volume:** NA  
**Date Analyzed:** 6 Dec 2002 18:42      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.  
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
 B - Indicates the analyte was found in the blank as well as in the sample.  
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\95922.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0060

<i>Sample Number:</i> AB74159	<i>Matrix:</i> Water
<i>Client Id:</i> WTB120202	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FD4996	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 6 Dec 2002 18:42	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/2002-NA	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\95922.txt

**Sample Number:** AB74133      **Matrix:** Soil  
**Client Id:** FRSS-12      **Initial Volume:** 30g  
**Data File:** FZ6161      **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 17:17      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 94  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.35	U
95501	1,2-Dichlorobenzene	0.35	U
122667	1,2-Diphenylhydrazine	0.35	U
541731	1,3-Dichlorobenzene	0.35	U
106467	1,4-Dichlorobenzene	0.35	U
121142	2,4-Dinitrotoluene	0.35	U
606202	2,6-Dinitrotoluene	0.35	U
91587	2-Chloronaphthalene	0.35	U
91576	2-Methylnaphthalene	0.35	U
88744	2-Nitroaniline	0.35	U
91941	3,3'-Dichlorobenzidine	0.35	U
99092	3-Nitroaniline	0.35	U
101553	4-Bromophenyl-phenylether	0.35	U
106478	4-Chloroaniline	0.35	U
7005723	4-Chlorophenyl-phenylether	0.35	U
100016	4-Nitroaniline	0.35	U
83329	Acenaphthene	0.35	0.065 J
208968	Acenaphthylene	0.35	0.095 J
120127	Anthracene	0.35	0.17 J
92875	Benzidine	0.71	U
56553	Benzo[a]anthracene	0.35	0.64
50328	Benzo[a]pyrene	0.35	0.63
205992	Benzo[b]fluoranthene	0.35	1.0
191242	Benzo[g,h,i]perylene	0.35	0.24 J
207089	Benzo[k]fluoranthene	0.35	0.41
111911	Bis(2-Chloroethoxy)methane	0.35	U
111444	Bis(2-Chloroethyl)Ether	0.35	U
108601	Bis(2-Chloroisopropyl)ether	0.35	U
117817	Bis(2-Ethylhexyl)phthalate	0.35	U
85687	Butylbenzylphthalate	0.35	U
86748	Carbazole	0.35	0.11 J
218019	Chrysene	0.35	0.70
117840	Di-n-octylphthalate	0.35	U
84742	Di-n-butylphthalate	0.35	0.10 J
53703	Dibenzo[a,h]Anthracene	0.35	U
132649	Dibenzofuran	0.35	0.041 J
84662	Diethylphthalate	0.35	U
131113	Dimethylphthalate	0.35	U
206440	Fluoranthene	0.35	1.5
86737	Fluorene	0.35	0.080 J
118741	Hexachlorobenzene	0.35	U
87683	Hexachlorobutadiene	0.35	U
77474	Hexachlorocyclopentadiene	0.39	U
67721	Hexachloroethane	0.35	U
193395	Indeno[1,2,3-cd]pyrene	0.35	0.23 J
78591	Isophorone	0.35	U
621647	N-Nitroso-Di-N-Propylamine	0.35	U
62759	N-Nitrosodimethylamine	0.35	U
86306	N-Nitrosodiphenylamine	0.35	U
91203	Naphthalene	0.35	0.076 J
98953	Nitrobenzene	0.35	U
85018	Phenanthrene	0.35	0.80
129000	Pyrene	0.35	0.96

**Total Target Concentration 7.8**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form 1e/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0062

<b>Sample Number:</b> AB74133	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSS-12	<b>Initial Volume:</b> 30g
<b>Data File:</b> FZ6161	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 5 Dec 2002 17:17	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/02-12/4/02	<b>Percent Solids:</b> 94

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	1.900	0.74 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	2.400	20 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.850	7.3 J AB
4	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	8.570	0.29 J B
5	117-82-8	1,2-Benzenedicarboxylic acid, bis(2-meth	9.000	0.17 J
6	630-06-8	Hexatriacontane	10.180	0.19 J
7	54789-40-1	Heptanamide, 4-ethyl-5-methyl-	11.480	0.33 J
8	593-45-3	Octadecane	13.010	0.18 J
9	544-85-4	Dotriacontane	13.910	0.67 J
10		unknown	14.010	0.19 J
11	198-55-0	Perylene	14.050	0.54 J
12	544-85-4	Dotriacontane	14.790	0.50 J
13		unknown	15.800	0.25 J

**Total Tentatively Identified Concentration      31**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\42813.txt



**Sample Number:** AB74134  
**Client Id:** FRSS-11  
**Data File:** FZ6159  
**Date Analyzed:** 5 Dec 2002 16:30  
**Date Received/Extracted:** 12/3/02-12/4/02  
**Matrix:** Soil  
**Initial Volume:** 30g  
**Final Volume:** 1ml  
**Dilution Factor:** 1  
**Percent Solids:** 86  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.39	U
95501	1,2-Dichlorobenzene	0.39	U
122667	1,2-Diphenylhydrazine	0.39	U
541731	1,3-Dichlorobenzene	0.39	U
106467	1,4-Dichlorobenzene	0.39	U
121142	2,4-Dinitrotoluene	0.39	U
606202	2,6-Dinitrotoluene	0.39	U
91587	2-Chloronaphthalene	0.39	U
91576	2-Methylnaphthalene	0.39	U
88744	2-Nitroaniline	0.39	U
91941	3,3'-Dichlorobenzidine	0.39	U
99092	3-Nitroaniline	0.39	U
101553	4-Bromophenyl-phenylether	0.39	U
106478	4-Chloroaniline	0.39	U
7005723	4-Chlorophenyl-phenylether	0.39	U
100016	4-Nitroaniline	0.39	U
83329	Acenaphthene	0.39	U
208968	Acenaphthylene	0.39	U
120127	Anthracene	0.39	0.044 J
92875	Benzidine	0.78	U
56553	Benzo[a]anthracene	0.39	0.28 J
50328	Benzo[a]pyrene	0.39	0.30 J
205992	Benzo[b]fluoranthene	0.39	0.48
191242	Benzo[g,h,i]perylene	0.39	0.17 J
207089	Benzo[k]fluoranthene	0.39	0.17 J
111911	Bis(2-Chloroethoxy)methane	0.39	U
111444	Bis(2-Chloroethyl)Ether	0.39	U
108601	Bis(2-Chloroisopropyl)ether	0.39	U
117817	Bis(2-Ethylhexyl)phthalate	0.39	U
85687	Butylbenzylphthalate	0.39	0.050 J
86748	Carbazole	0.39	U
218019	Chrysene	0.39	0.35 J
117840	Di-n-octylphthalate	0.39	U
84742	Di-n-butylphthalate	0.39	0.12 J
53703	Dibenzo[a,h]Anthracene	0.39	U
132649	Dibenzofuran	0.39	U
84662	Diethylphthalate	0.39	U
131113	Dimethylphthalate	0.39	U
206440	Fluoranthene	0.39	0.60
86737	Fluorene	0.39	U
118741	Hexachlorobenzene	0.39	U
87683	Hexachlorobutadiene	0.39	U
77474	Hexachlorocyclopentadiene	0.43	U
67721	Hexachloroethane	0.39	U
193395	Indeno[1,2,3-cd]pyrene	0.39	0.14 J
78591	Isophorone	0.39	U
621647	N-Nitroso-Di-N-Propylamine	0.39	U
62759	N-Nitrosodimethylamine	0.39	U
86306	N-Nitrosodiphenylamine	0.39	U
91203	Naphthalene	0.39	U
98953	Nitrobenzene	0.39	U
85018	Phenanthrene	0.39	0.25 J
129000	Pyrene	0.39	0.45

**Total Target Concentration 3.4**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

*Form 17*  
ORGANICS SEMIVOLATILE REPORT  
Tentatively Identified Compounds

HC 0064

<i>Sample Number:</i> AB74134	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-11	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6159	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 16:30	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 86

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	1.900	0.61 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	2.400	19 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.840	6.3 J A $\beta$
4	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	8.570	0.34 J $\beta$
5		unknown	11.310	0.36 J
6	638-67-5	Tricosane	13.010	0.21 J
7	593-45-3	Octadecane	13.460	0.21 J
8	105-86-2	Geraniol formate	13.550	0.21 J
9	638-68-6	Triacontane	13.910	0.95 J
10	192-97-2	Benzo[e]pyrene	14.040	0.81 J
11		unknown	14.560	0.23 J
12	630-06-8	Hexatriacontane	14.790	1.7 J
13	40710-42-7	1-Hentetracontanol	15.270	0.57 J
14	14167-59-0	Tetratriacontane	15.670	1.0 J
15		unknown	16.240	0.24 J

*Total Tentatively Identified Concentration*      33

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

Sample Number: AB74135(3X)

Matrix: Soil

Client Id: FRSB-09

Initial Volume: 30g

Data File: FC4407

Final Volume: 1ml

Date Analyzed: 9 Dec 2002 21:05

Dilution Factor: 3

Date Received/Extracted: 12/3/02-12/4/02

Percent Solids: 72

Column: Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	1.4	U
95501	1,2-Dichlorobenzene	1.4	U
122667	1,2-Diphenylhydrazine	1.4	U
541731	1,3-Dichlorobenzene	1.4	U
106467	1,4-Dichlorobenzene	1.4	U
121142	2,4-Dinitrotoluene	1.4	U
606202	2,6-Dinitrotoluene	1.4	U
91587	2-Chloronaphthalene	1.4	U
91576	2-Methylnaphthalene	1.4	0.66 J
88744	2-Nitroaniline	1.4	U
91941	3,3'-Dichlorobenzidine	1.4	U
99092	3-Nitroaniline	1.4	U
101553	4-Bromophenyl-phenylether	1.4	U
106478	4-Chloroaniline	1.4	U
7005723	4-Chlorophenyl-phenylether	1.4	U
100016	4-Nitroaniline	1.4	U
83329	Acenaphthene	1.4	0.31 J
208968	Acenaphthylene	1.4	1.2 J
120127	Anthracene	1.4	1.5
92875	Benidine	2.8	U
56553	Benzo[a]anthracene	1.4	4.0
50328	Benzo[a]pyrene	1.4	4.1
205992	Benzo[b]fluoranthene	1.4	8.1
191242	Benzo[g,h,i]perylene	1.4	2.4
207089	Benzo[k]fluoranthene	1.4	4.3
111911	Bis(2-Chloroethoxy)methane	1.4	U
111444	Bis(2-Chloroethyl)Ether	1.4	U
108601	Bis(2-Chloroisopropyl)ether	1.4	U
117817	Bis(2-Ethylhexyl)phthalate	1.4	5.6 B
85687	Butylbenzylphthalate	1.4	2.6
86748	Carbazole	1.4	0.61 J
218019	Chrysene	1.4	4.5
117840	Di-n-octylphthalate	1.4	U
84742	Di-n-butylphthalate	1.4	0.41 J
53703	Dibenzo[a,h]Anthracene	1.4	0.26 J
132649	Dibenzofuran	1.4	0.22 J
84662	Diethylphthalate	1.4	U
131113	Dimethylphthalate	1.4	U
206440	Fluoranthene	1.4	4.5
86737	Fluorene	1.4	0.44 J
118741	Hexachlorobenzene	1.4	U
87683	Hexachlorobutadiene	1.4	U
77474	Hexachlorocyclopentadiene	1.4	U
67721	Hexachloroethane	1.4	U
193395	Indeno[1,2,3-cd]pyrene	1.4	2.2
78591	Isophorone	1.4	U
621647	N-Nitroso-Di-N-Propylamine	1.4	U
62759	N-Nitrosodimethylamine	1.4	U
86306	N-Nitrosodiphenylamine	1.4	U
91203	Naphthalene	1.4	2.3
98953	Nitrobenzene	1.4	U
85018	Phenanthrene	1.4	3.3
129000	Pyrene	1.4	9.8

Total Target Concentration 63

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\52504.txt

*Form 16/1J*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0066

<i>Sample Number:</i> AB74135(3X)	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-09	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4407	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 9 Dec 2002 21:05	<i>Dilution Factor:</i> 3
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 72

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.410	0.94 <i>J</i> <i>B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	2.950	31 <i>J</i> <i>B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.470	8.5 <i>J</i> <i>A</i> <i>B</i>
4	694-87-1	Bicyclo[4.2.0]octa-1,3,5-triene	4.080	1.6 <i>J</i>
5	100-80-1	Benzene, 1-ethenyl-3-methyl-	5.270	1.7 <i>J</i>
6	95-13-6	1H-Indene	5.810	0.73 <i>J</i>
7	84-65-1	9,10-Anthracenedione	12.730	0.90 <i>J</i>
8		unknown	13.450	0.72 <i>J</i>
9	629-62-9	Pentadecane	13.720	0.79 <i>J</i>
10	243-17-4	11H-Benzo[b]fluorene	13.870	0.91 <i>J</i>
11	2381-21-7	Pyrene, 1-methyl-	14.020	1.2 <i>J</i>
12	630-06-8	Hexatriacontane	14.680	1.6 <i>J</i>
13	55045-08-4	Dodecane, 2-methyl-6-propyl-	15.130	1.0 <i>J</i>
14	629-92-5	Nonadecane	15.570	0.76 <i>J</i>
15	192-97-2	Benzo[e]pyrene	16.890	1.4 <i>J</i>

*Total Tentatively Identified Concentration*      54

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

Sample Number: AB74136

Matrix: Soil

Client Id: FRSB-08A

Initial Volume: 30g

Data File: FC4344

Final Volume: 1ml

Date Analyzed: 5 Dec 2002 15:48

Dilution Factor: 1

Date Received/Extracted: 12/3/02-12/4/02

Percent Solids: 88

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.38	U
95501	1,2-Dichlorobenzene	0.38	U
122667	1,2-Diphenylhydrazine	0.38	U
541731	1,3-Dichlorobenzene	0.38	U
106467	1,4-Dichlorobenzene	0.38	U
121142	2,4-Dinitrotoluene	0.38	U
606202	2,6-Dinitrotoluene	0.38	U
91587	2-Chloronaphthalene	0.38	U
91576	2-Methylnaphthalene	0.38	U
88744	2-Nitroaniline	0.38	U
91941	3,3'-Dichlorobenzidine	0.38	U
99092	3-Nitroaniline	0.38	U
101553	4-Bromophenyl-phenylether	0.38	U
106478	4-Chloroaniline	0.38	U
7005723	4-Chlorophenyl-phenylether	0.38	U
100016	4-Nitroaniline	0.38	U
83329	Acenaphthene	0.38	U
208968	Acenaphthylene	0.38	U
120127	Anthracene	0.38	U
92875	Benzidine	0.76	U
56553	Benzo[a]anthracene	0.38	U
50328	Benzo[a]pyrene	0.38	U
205992	Benzo[b]fluoranthene	0.38	U
191242	Benzo[g,h,i]perylene	0.38	U
207089	Benzo[k]fluoranthene	0.38	U
111911	Bis(2-Chloroethoxy)methane	0.38	U
111444	Bis(2-Chloroethyl)Ether	0.38	U
108601	Bis(2-Chloroisopropyl)ether	0.38	U
117817	Bis(2-Ethylhexyl)phthalate	0.38	0.062 JB
85687	Butylbenzylphthalate	0.38	U
86748	Carbazole	0.38	U
218019	Chrysene	0.38	U
117840	Di-n-octylphthalate	0.38	U
84742	Di-n-butylphthalate	0.38	U
53703	Dibenzo[a,h]Anthracene	0.38	U
132649	Dibenzofuran	0.38	U
84662	Diethylphthalate	0.38	U
131113	Dimethylphthalate	0.38	U
206440	Fluoranthene	0.38	U
86737	Fluorene	0.38	U
118741	Hexachlorobenzene	0.38	U
87683	Hexachlorobutadiene	0.38	U
77474	Hexachlorocyclopentadiene	0.38	U
67721	Hexachloroethane	0.38	U
193395	Indeno[1,2,3-cd]pyrene	0.38	U
78591	Isophorone	0.38	U
621647	N-Nitroso-Di-N-Propylamine	0.38	U
62759	N-Nitrosodimethylamine	0.38	U
86306	N-Nitrosodiphenylamine	0.38	U
91203	Naphthalene	0.38	U
98953	Nitrobenzene	0.38	U
85018	Phenanthrene	0.38	U
129000	Pyrene	0.38	U

Total Target Concentration 0.062

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

FORMER  
ORGANICS SEMIVOLATILE REPORT  
Tentatively Identified Compounds

HC 0068

Sample Number: AB74136                      Matrix: Soil  
Client Id: FRSB-08A                      Initial Volume: 30g  
Data File: FC4344                      Final Volume: 1ml  
Date Analyzed: 5 Dec 2002 15:48                      Dilution Factor: 1  
Date Received/Extracted: 12/3/02-12/4/02                      Percent Solids: 88

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	2.440	0.86 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	3.010	20 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.520	6.8 J AB
4		unknown	11.480	0.28 J B
5		unknown	14.580	0.44 J B
6		unknown	16.400	0.24 J B

Total Tentatively Identified Concentration                      29

A - Indicates an aldol condensate.

J - Indicates an estimated value.

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\52504.txt

Sample Number: AB74137

Matrix: Soil

Client Id: FRSB-08B

Initial Volume: 30g

Data File: FC4345

Final Volume: 1ml

Date Analyzed: 5 Dec 2002 16:13

Dilution Factor: 1

Date Received/Extracted: 12/3/02-12/4/02

Percent Solids: 83

Column: Supelco 105 m vocol col, 5 mm id, 3.0 um film

HC 0069

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.40	U
95501	1,2-Dichlorobenzene	0.40	U
122667	1,2-Diphenylhydrazine	0.40	U
541731	1,3-Dichlorobenzene	0.40	U
106467	1,4-Dichlorobenzene	0.40	U
121142	2,4-Dinitrotoluene	0.40	U
606202	2,6-Dinitrotoluene	0.40	U
91587	2-Chloronaphthalene	0.40	U
91576	2-Methylnaphthalene	0.40	U
88744	2-Nitroaniline	0.40	U
91941	3,3'-Dichlorobenzidine	0.40	U
99092	3-Nitroaniline	0.40	U
101553	4-Bromophenyl-phenylether	0.40	U
106478	4-Chloroaniline	0.40	U
7005723	4-Chlorophenyl-phenylether	0.40	U
100016	4-Nitroaniline	0.40	U
83329	Acenaphthene	0.40	U
208968	Acenaphthylene	0.40	U
120127	Anthracene	0.40	U
92875	Benzidine	0.80	U
56553	Benzo[a]anthracene	0.40	U
50328	Benzo[a]pyrene	0.40	U
205992	Benzo[b]fluoranthene	0.40	U
191242	Benzo[g,h,i]perylene	0.40	U
207089	Benzo[k]fluoranthene	0.40	U
111911	Bis(2-Chloroethoxy)methane	0.40	U
111444	Bis(2-Chloroethyl)Ether	0.40	U
108601	Bis(2-Chloroisopropyl)ether	0.40	U
117817	Bis(2-Ethylhexyl)phthalate	0.40	0.13 JB
85687	Butylbenzylphthalate	0.40	U
86748	Carbazole	0.40	U
218019	Chrysene	0.40	U
117840	Di-n-octylphthalate	0.40	U
84742	Di-n-butylphthalate	0.40	0.081 J
53703	Dibenzo[a,h]Anthracene	0.40	U
132649	Dibenzofuran	0.40	U
84662	Diethylphthalate	0.40	U
131113	Dimethylphthalate	0.40	U
206440	Fluoranthene	0.40	U
86737	Fluorene	0.40	U
118741	Hexachlorobenzene	0.40	U
87683	Hexachlorobutadiene	0.40	U
77474	Hexachlorocyclopentadiene	0.40	U
67721	Hexachloroethane	0.40	U
193395	Indeno[1,2,3-cd]pyrene	0.40	U
78591	Isophorone	0.40	U
621647	N-Nitroso-Di-N-Propylamine	0.40	U
62759	N-Nitrosodimethylamine	0.40	U
86306	N-Nitrosodiphenylamine	0.40	U
91203	Naphthalene	0.40	U
98953	Nitrobenzene	0.40	U
85018	Phenanthrene	0.40	U
129000	Pyrene	0.40	U

Total Target Concentration 0.21

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\52504.txt

*Form 12/17*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0070

<i>Sample Number:</i> AB74137	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-08B	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4345	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 16:13	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 83

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.440	0.91 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	3.010	21 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.520	7.5 J A B
4		unknown	11.480	0.51 J B
5	84-69-5	1,2-Benzenedicarboxylic acid, bis(2-meth	11.960	0.16 J
6		unknown	14.580	0.89 J B
7		unknown	16.400	0.50 J B

*Total Tentatively Identified Concentration*      31

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt



**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0071

**Sample Number:** AB74138(R) **Matrix:** Water  
**Client Id:** FB120202 **Initial Volume:** 1000ml  
**Data File:** FE1046 **Final Volume:** 1ml  
**Date Analyzed:** 6 Dec 2002 19:56 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/5/02 **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
95954	2,4,5-Trichlorophenol	10	U
88062	2,4,6-Trichlorophenol	10	U
120832	2,4-Dichlorophenol	10	U
105679	2,4-Dimethylphenol	10	U
51285	2,4-Dinitrophenol	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
95578	2-Chlorophenol	10	U
91576	2-Methylnaphthalene	10	U
95487	2-Methylphenol	10	U
88744	2-Nitroaniline	10	U
88755	2-Nitrophenol	10	U
106445	3&4-Methylphenol	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
534521	4,6-Dinitro-2-methylphenol	10	U
101553	4-Bromophenyl-phenylether	10	U
59507	4-Chloro-3-methylphenol	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
100027	4-Nitrophenol	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benzidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	1.3 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	U
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	U
98953	Nitrobenzene	10	U
87865	Pentachlorophenol	10	U
85018	Phenanthrene	10	U
108952	Phenol	10	U
129000	Pyrene	10	U

**Total Target Concentration 1.3**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

**Formle/1f**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0072

<b>Sample Number:</b> AB74138(R)	<b>Matrix:</b> Water
<b>Client Id:</b> FB120202	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FE1046	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 6 Dec 2002 19:56	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/02-12/5/02	<b>Percent Solids:</b> 0

Hit#	Cas Number	Compound	RT	Concentration ug/L
1		unknown	8.620	17 J $\beta$
2	301-02-0	9-Octadecenamide, (Z)-	11.170	33 J $\beta$
3	301-02-0	9-Octadecenamide, (Z)-	12.770	18 J $\beta$

**Total Tentatively Identified Concentration**      68

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\35530.txt

**Sample Number:** AB74139  
**Client Id:** FRSS-13  
**Data File:** FZ6156  
**Date Analyzed:** 5 Dec 2002 15:11  
**Date Received/Extracted:** 12/3/02-12/4/02  
**Matrix:** Soil  
**Initial Volume:** 30g  
**Final Volume:** 1ml  
**Dilution Factor:** 1  
**Percent Solids:** 92  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.36	U
95501	1,2-Dichlorobenzene	0.36	U
122667	1,2-Diphenylhydrazine	0.36	U
541731	1,3-Dichlorobenzene	0.36	U
106467	1,4-Dichlorobenzene	0.36	U
121142	2,4-Dinitrotoluene	0.36	U
606202	2,6-Dinitrotoluene	0.36	U
91587	2-Chloronaphthalene	0.36	U
91576	2-Methylnaphthalene	0.36	U
88744	2-Nitroaniline	0.36	U
91941	3,3'-Dichlorobenzidine	0.36	U
99092	3-Nitroaniline	0.36	U
101553	4-Bromophenyl-phenylether	0.36	U
106478	4-Chloroaniline	0.36	U
7005723	4-Chlorophenyl-phenylether	0.36	U
100016	4-Nitroaniline	0.36	U
83329	Acenaphthene	0.36	U
208968	Acenaphthylene	0.36	U
120127	Anthracene	0.36	U
92875	Benzidine	0.72	U
56553	Benzo[a]anthracene	0.36	0.11 J
50328	Benzo[a]pyrene	0.36	0.089 J
205992	Benzo[b]fluoranthene	0.36	0.14 J
191242	Benzo[g,h,i]perylene	0.36	U
207089	Benzo[k]fluoranthene	0.36	0.062 J
111911	Bis(2-Chloroethoxy)methane	0.36	U
111444	Bis(2-Chloroethyl)Ether	0.36	U
108601	Bis(2-Chloroisopropyl)ether	0.36	U
117817	Bis(2-Ethylhexyl)phthalate	0.36	U
85687	Butylbenzylphthalate	0.36	U
86748	Carbazole	0.36	U
218019	Chrysene	0.36	0.11 J
117840	Di-n-octylphthalate	0.36	U
84742	Di-n-butylphthalate	0.36	0.043 J
53703	Dibenzo[a,h]Anthracene	0.36	U
132649	Dibenzofuran	0.36	U
84662	Diethylphthalate	0.36	U
131113	Dimethylphthalate	0.36	U
206440	Fluoranthene	0.36	0.22 J
86737	Fluorene	0.36	U
118741	Hexachlorobenzene	0.36	U
87683	Hexachlorobutadiene	0.36	U
77474	Hexachlorocyclopentadiene	0.40	U
67721	Hexachloroethane	0.36	U
193395	Indeno[1,2,3-cd]pyrene	0.36	U
78591	Isophorone	0.36	U
621647	N-Nitroso-Di-N-Propylamine	0.36	U
62759	N-Nitrosodimethylamine	0.36	U
86306	N-Nitrosodiphenylamine	0.36	U
91203	Naphthalene	0.36	U
98953	Nitrobenzene	0.36	U
85018	Phenanthrene	0.36	0.080 J
129000	Pyrene	0.36	0.16 J

**Total Target Concentration 1**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

*Form 16/17*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0074

<i>Sample Number:</i> AB74139	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-13	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6156	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 15:11	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 92

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	1.890	0.54 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	2.390	19 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.820	6.4 J AB
4	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	8.550	0.32 J B
5	1120-16-7	Dodecanamide	11.450	0.43 J
6		unknown	13.390	0.17 J
7	629-94-7	Heneicosane	13.890	0.21 J
8	7098-22-8	Tetratetracontane	14.770	0.32 J

*Total Tentatively Identified Concentration*      27

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

Sample Number: AB74140

Matrix: Soil

Client Id: FRSS-15

Initial Volume: 30g

Data File: FZ6157

Final Volume: 1ml

Date Analyzed: 5 Dec 2002 15:34

Dilution Factor: 1

Date Received/Extracted: 12/3/02-12/4/02

Percent Solids: 92

Column: Supelco 105 m vocol col, 5 mm id, 3.0 um film

HC 0075

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.36	U
95501	1,2-Dichlorobenzene	0.36	U
122667	1,2-Diphenylhydrazine	0.36	U
541731	1,3-Dichlorobenzene	0.36	U
106467	1,4-Dichlorobenzene	0.36	U
121142	2,4-Dinitrotoluene	0.36	U
606202	2,6-Dinitrotoluene	0.36	U
91587	2-Chloronaphthalene	0.36	U
91576	2-Methylnaphthalene	0.36	U
88744	2-Nitroaniline	0.36	U
91941	3,3'-Dichlorobenzidine	0.36	U
99092	3-Nitroaniline	0.36	U
101553	4-Bromophenyl-phenylether	0.36	U
106478	4-Chloroaniline	0.36	U
7005723	4-Chlorophenyl-phenylether	0.36	U
100016	4-Nitroaniline	0.36	U
83329	Acenaphthene	0.36	U
208968	Acenaphthylene	0.36	U
120127	Anthracene	0.36	U
92875	Benzidine	0.72	U
56553	Benzo[a]anthracene	0.36	0.060 J
50328	Benzo[a]pyrene	0.36	0.052 J
205992	Benzo[b]fluoranthene	0.36	0.10 J
191242	Benzo[g,h,i]perylene	0.36	U
207089	Benzo[k]fluoranthene	0.36	U
111911	Bis(2-Chloroethoxy)methane	0.36	U
111444	Bis(2-Chloroethyl)Ether	0.36	U
108601	Bis(2-Chloroisopropyl)ether	0.36	U
117817	Bis(2-Ethylhexyl)phthalate	0.36	U
85687	Butylbenzylphthalate	0.36	U
86748	Carbazole	0.36	U
218019	Chrysene	0.36	0.065 J
117840	DI-n-octylphthalate	0.36	U
84742	DI-n-butylphthalate	0.36	U
53703	Dibenzo[a,h]Anthracene	0.36	U
132649	Dibenzofuran	0.36	U
84662	Diethylphthalate	0.36	U
131113	Dimethylphthalate	0.36	U
206440	Fluoranthene	0.36	0.15 J
86737	Fluorene	0.36	U
118741	Hexachlorobenzene	0.36	U
87683	Hexachlorobutadiene	0.36	U
77474	Hexachlorocyclopentadiene	0.40	U
67721	Hexachloroethane	0.36	U
193395	Indeno[1,2,3-cd]pyrene	0.36	U
78591	Isophorone	0.36	U
621647	N-Nitroso-Di-N-Propylamine	0.36	U
62759	N-Nitrosodimethylamine	0.36	U
86306	N-Nitrosodiphenylamine	0.36	U
91203	Naphthalene	0.36	U
98953	Nitrobenzene	0.36	U
85018	Phenanthrene	0.36	0.11 J
129000	Pyrene	0.36	0.11 J

Total Target Concentration 0.65

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

*Form 1*  
ORGANICS SEMIVOLATILE REPORT  
Tentatively Identified Compounds

HC 0076

<i>Sample Number:</i> AB74140	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-15	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6157	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 15:34	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 92

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	1.880	0.51 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	2.380	18 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.820	6.1 J A $\beta$
4	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	8.550	0.27 J $\beta$
5		unknown	11.450	0.36 J
6	7098-22-8	Tetratetracontane	13.880	0.22 J
7	630-05-7	Trtriacontane	14.760	0.28 J

*Total Tentatively Identified Concentration*      26

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

**Sample Number:** AB74141(3X) **Matrix:** Soil  
**Client Id:** FRSS-01 **Initial Volume:** 30g  
**Data File:** FZ6153 **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 14:02 **Dilution Factor:** 3  
**Date Received/Extracted:** 12/3/02-12/4/02 **Percent Solids:** 89  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQLMDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	1.1	U
95501	1,2-Dichlorobenzene	1.1	U
122667	1,2-Diphenylhydrazine	1.1	U
541731	1,3-Dichlorobenzene	1.1	U
106467	1,4-Dichlorobenzene	1.1	U
121142	2,4-Dinitrotoluene	1.1	U
606202	2,6-Dinitrotoluene	1.1	U
91587	2-Chloronaphthalene	1.1	U
91576	2-Methylnaphthalene	1.1	0.13 J
88744	2-Nitroaniline	1.1	U
91941	3,3'-Dichlorobenzidine	1.1	U
99092	3-Nitroaniline	1.1	U
101553	4-Bromophenyl-phenylether	1.1	U
106478	4-Chloroaniline	1.1	U
7005723	4-Chlorophenyl-phenylether	1.1	U
100016	4-Nitroaniline	1.1	U
83329	Acenaphthene	1.1	U
208968	Acenaphthylene	1.1	0.12 J
120127	Anthracene	1.1	0.18 J
92875	Benzidine	2.2	U
56553	Benzo[a]anthracene	1.1	0.62 J
50328	Benzo[a]pyrene	1.1	0.86 J
205992	Benzo[b]fluoranthene	1.1	1.3
191242	Benzo[g,h,i]perylene	1.1	0.41 J
207089	Benzo[k]fluoranthene	1.1	0.50 J
111911	Bis(2-Chloroethoxy)methane	1.1	U
111444	Bis(2-Chloroethyl)Ether	1.1	U
108601	Bis(2-Chloroisopropyl)ether	1.1	U
117817	Bis(2-Ethylhexyl)phthalate	1.1	U
85687	Butylbenzylphthalate	1.1	U
86748	Carbazole	1.1	U
218019	Chrysene	1.1	0.89 J
117840	Di-n-octylphthalate	1.1	U
84742	Di-n-butylphthalate	1.1	0.16 J
53703	Dibenzo[a,h]Anthracene	1.1	U
132649	Dibenzofuran	1.1	U
84662	Diethylphthalate	1.1	U
131113	Dimethylphthalate	1.1	U
206440	Fluoranthene	1.1	1.2
86737	Fluorene	1.1	U
118741	Hexachlorobenzene	1.1	U
87683	Hexachlorobutadiene	1.1	U
77474	Hexachlorocyclopentadiene	1.2	U
67721	Hexachloroethane	1.1	U
193395	Indeno[1,2,3-cd]pyrene	1.1	0.36 J
78591	Isophorone	1.1	U
621647	N-Nitroso-Di-N-Propylamine	1.1	U
62759	N-Nitrosodimethylamine	1.1	U
86306	N-Nitrosodiphenylamine	1.1	U
91203	Naphthalene	1.1	0.23 J
98953	Nitrobenzene	1.1	U
85018	Phenanthrene	1.1	0.72 J
129000	Pyrene	1.1	1.1

**Total Target Concentration 8.8**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

*Form 1/1*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0078

<i>Sample Number:</i> AB74141(3X)	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-01	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6153	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 14:02	<i>Dilution Factor:</i> 3
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 89

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	1.900	0.59 J <i>B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	2.380	23 J <i>B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.820	7.1 J <i>AB</i>
4	638-68-6	triacontane	8.080	0.91 J
5	630-06-8	Hexatriacontane	9.670	0.62 J
6		unknown	9.760	0.60 J
7		unknown	12.520	0.58 J
8	593-45-3	Octadecane	12.980	0.75 J
9		unknown	13.890	1.1 J
10	198-55-0	Perylene	14.010	1.0 J
11		unknown	14.330	0.92 J
12	-00-0	13(16),14-LABDIEN-8-OL	14.860	1.7 J
13		unknown	15.230	1.2 J
14		unknown	15.690	0.87 J
15		unknown	15.750	0.89 J

*Total Tentatively Identified Concentration*      42

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt



Sample Number: AB74142(MS:AB7) Matrix: Soil  
 Client Id: FRSS-01 MS Initial Volume: 30g  
 Data File: FZ6154 Final Volume: 1ml  
 Date Analyzed: 5 Dec 2002 14:25 Dilution Factor: 3  
 Date Received/Extracted: 12/3/02-12/4/02 Percent Solids: 90  
 Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	1.1	2.0
95501	1,2-Dichlorobenzene	1.1	U
122667	1,2-Diphenylhydrazine	1.1	U
541731	1,3-Dichlorobenzene	1.1	2.2
106467	1,4-Dichlorobenzene	1.1	U
121142	2,4-Dinitrotoluene	1.1	1.9
606202	2,6-Dinitrotoluene	1.1	U
91587	2-Chloronaphthalene	1.1	U
91576	2-Methylnaphthalene	1.1	0.11 J
88744	2-Nitroaniline	1.1	U
91941	3,3'-Dichlorobenzidine	1.1	U
99092	3-Nitroaniline	1.1	U
101553	4-Bromophenyl-phenylether	1.1	U
106478	4-Chloroaniline	1.1	U
7005723	4-Chlorophenyl-phenylether	1.1	U
100016	4-Nitroaniline	1.1	U
83329	Acenaphthene	1.1	2.4
208968	Acenaphthylene	1.1	U
120127	Anthracene	1.1	U
92875	Benidine	2.2	U
56553	Benzo[a]anthracene	1.1	0.26 J
50328	Benzo[a]pyrene	1.1	0.38 J
205992	Benzo[b]fluoranthene	1.1	0.63 J
191242	Benzo[g,h,i]perylene	1.1	U
207089	Benzo[k]fluoranthene	1.1	0.15 J
111911	Bis(2-Chloroethoxy)methane	1.1	U
111444	Bis(2-Chloroethyl)Ether	1.1	U
108601	Bis(2-Chloroisopropyl)ether	1.1	U
117817	Bis(2-Ethylhexyl)phthalate	1.1	U
85687	Butylbenzylphthalate	1.1	U
86748	Carbazole	1.1	U
218019	Chrysene	1.1	0.39 J
117840	Di-n-octylphthalate	1.1	U
84742	Di-n-butylphthalate	1.1	U
53703	Dibenzo[a,h]Anthracene	1.1	U
132649	Dibenzofuran	1.1	U
84662	Diethylphthalate	1.1	U
131113	Dimethylphthalate	1.1	U
206440	Fluoranthene	1.1	0.50 J
86737	Fluorene	1.1	U
118741	Hexachlorobenzene	1.1	U
87683	Hexachlorobutadiene	1.1	U
77474	Hexachlorocyclopentadiene	1.2	U
67721	Hexachloroethane	1.1	U
193395	Indeno[1,2,3-cd]pyrene	1.1	U
78591	Isophorone	1.1	U
621647	N-Nitroso-Di-N-Propylamine	1.1	U
62759	N-Nitrosodimethylamine	1.1	U
86306	N-Nitrosodiphenylamine	1.1	U
91203	Naphthalene	1.1	U
98953	Nitrobenzene	1.1	U
85018	Phenanthrene	1.1	0.32 J
129000	Pyrene	1.1	2.5

Total Target Concentration 14

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

*Form 16/17*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0000

<i>Sample Number:</i> AB74142(MS:AB7414	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-01 MS	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6154	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 14:25	<i>Dilution Factor:</i> 3
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 90

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1	141-79-7	3-Penten-2-one, 4-methyl-	2.380	12 J <i>B</i>
2	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.820	3.8 J <i>AB</i>
3	95-57-8	Phenol, 2-chloro-	4.110	2.7 J
4	621-64-7	1-Propanamine, N-nitroso-N-propyl-	4.640	1.7 J
5	59-50-7	Phenol, 4-chloro-3-methyl-	5.860	3.7 J
6	100-02-7	Phenol, 4-nitro-	7.190	1.2 J
7	87-86-5	Phenol, pentachloro-	8.510	0.80 J
8		unknown	13.240	0.63 J
9		unknown	13.890	0.88 J
10		unknown	14.330	0.99 J
11		unknown	14.540	0.59 J
12		unknown	14.730	0.89 J
13		unknown	14.870	1.7 J
14		unknown	15.230	0.85 J
15		unknown	15.690	0.60 J

*Total Tentatively Identified Concentration*      33

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

# Form 1

## ORGANICS SEMIVOLATILE REPORT

Sample Number: AB74143(120X)

Matrix: Soil

Client Id: FRSB-03A

Initial Volume: 30g

Data File: FC4397

Final Volume: 1ml

Date Analyzed: 9 Dec 2002 16:51

Dilution Factor: 120

Date Received/Extracted: 12/3/02-12/4/02

Percent Solids: 87

Column: Supelco 105 m vocol col., 5 mm id, 3.0 um film

HC 0081

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	46	U
95501	1,2-Dichlorobenzene	46	U
122667	1,2-Diphenylhydrazine	46	U
541731	1,3-Dichlorobenzene	46	U
106467	1,4-Dichlorobenzene	46	U
121142	2,4-Dinitrotoluene	46	U
606202	2,6-Dinitrotoluene	46	U
91587	2-Chloronaphthalene	46	U
91576	2-Methylnaphthalene	46	85
88744	2-Nitroaniline	46	U
91941	3,3'-Dichlorobenzidine	46	U
99092	3-Nitroaniline	46	U
101553	4-Bromophenyl-phenylether	46	U
106478	4-Chloroaniline	46	U
7005723	4-Chlorophenyl-phenylether	46	U
100016	4-Nitroaniline	46	U
83329	Acenaphthene	46	U
208968	Acenaphthylene	46	U
120127	Anthracene	46	U
92875	Benzidine	92	U
56553	Benzo[a]anthracene	46	U
50328	Benzo[a]pyrene	46	U
205992	Benzo[b]fluoranthene	46	U
191242	Benzo[g,h,i]perylene	46	U
207089	Benzo[k]fluoranthene	46	U
111911	Bis(2-Chloroethoxy)methane	46	U
111444	Bis(2-Chloroethyl)Ether	46	U
108601	Bis(2-Chloroisopropyl)ether	46	U
117817	Bis(2-Ethylhexyl)phthalate	46	U
85687	Butylbenzylphthalate	46	U
86748	Carbazole	46	U
218019	Chrysene	46	U
117840	Di-n-octylphthalate	46	U
84742	Di-n-butylphthalate	46	U
53703	Dibenzo[a,h]Anthracene	46	U
132649	Dibenzofuran	46	U
84662	Diethylphthalate	46	U
131113	Dimethylphthalate	46	U
206440	Fluoranthene	46	7.2 J
86737	Fluorene	46	4.9 J
118741	Hexachlorobenzene	46	U
87683	Hexachlorobutadiene	46	U
77474	Hexachlorocyclopentadiene	46	U
67721	Hexachloroethane	46	U
193395	Indeno[1,2,3-cd]pyrene	46	U
78591	Isophorone	46	U
621647	N-Nitroso-Di-N-Propylamine	46	U
62759	N-Nitrosodimethylamine	46	U
86306	N-Nitrosodiphenylamine	46	U
91203	Naphthalene	46	520
98953	Nitrobenzene	46	U
85018	Phenanthrene	46	16 J
129000	Pyrene	46	6.4 J

Total Target Concentration 640

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\52504.txt

*Form 1e/1j*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0082

<i>Sample Number:</i> AB74143(120X)	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-03A	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4397	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 9 Dec 2002 16:51	<i>Dilution Factor:</i> 120
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 87

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1	141-79-7	3-Penten-2-one, 4-methyl-	2.930	28 J B
2	622-96-8	Benzene, 1-ethyl-4-methyl-	4.870	77 J
3	98-82-8	Benzene, (1-methylethyl)-	4.910	32 J
4	108-67-8	Benzene, 1,3,5-trimethyl-	4.970	28 J
5	95-63-6	Benzene, 1,2,4-trimethyl-	5.250	120 J
6	611-14-3	Benzene, 1-ethyl-2-methyl-	5.550	39 J
7	36617-02-4	Benzene, (2-bromocyclopropyl)-	5.600	27 J
8	496-11-7	1H-Indene, 2,3-dihydro-	5.690	49 J
9	673-32-5	Benzene, 1-propynyl-	5.800	60 J
10	933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	5.910	53 J
11		unknown	6.300	30 J
12	767-59-9	1H-Indene, 1-methyl-	6.840	19 J

*Total Tentatively Identified Concentration*      560

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

# ORGANICS SEMIVOLATILE REPORT

Sample Number: AB74144

Matrix: Soil

Client Id: FRSB-03B

Initial Volume: 30g

Data File: FC4346

Final Volume: 1ml

Date Analyzed: 5 Dec 2002 16:39

Dilution Factor: 1

Date Received/Extracted: 12/3/02-12/4/02

Percent Solids: 82

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0083

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.41	U
95501	1,2-Dichlorobenzene	0.41	U
122667	1,2-Diphenylhydrazine	0.41	U
541731	1,3-Dichlorobenzene	0.41	U
106467	1,4-Dichlorobenzene	0.41	U
121142	2,4-Dinitrotoluene	0.41	U
606202	2,6-Dinitrotoluene	0.41	U
91587	2-Chloronaphthalene	0.41	U
91576	2-Methylnaphthalene	0.41	U
88744	2-Nitroaniline	0.41	U
91941	3,3'-Dichlorobenzidine	0.41	U
99092	3-Nitroaniline	0.41	U
101553	4-Bromophenyl-phenylether	0.41	U
106478	4-Chloroaniline	0.41	U
7005723	4-Chlorophenyl-phenylether	0.41	U
100016	4-Nitroaniline	0.41	U
83329	Acenaphthene	0.41	U
208968	Acenaphthylene	0.41	U
120127	Anthracene	0.41	U
92875	Benzidine	0.81	U
56553	Benzo[a]anthracene	0.41	U
50328	Benzo[a]pyrene	0.41	U
205992	Benzo[b]fluoranthene	0.41	U
191242	Benzo[g,h,i]perylene	0.41	U
207089	Benzo[k]fluoranthene	0.41	U
111911	Bis(2-Chloroethoxy)methane	0.41	U
111444	Bis(2-Chloroethyl)Ether	0.41	U
108601	Bis(2-Chloroisopropyl)ether	0.41	U
117817	Bis(2-Ethylhexyl)phthalate	0.41	0.061 JB
85687	Butylbenzylphthalate	0.41	U
86748	Carbazole	0.41	U
218019	Chrysene	0.41	U
117840	Di-n-octylphthalate	0.41	U
84742	Di-n-butylphthalate	0.41	0.082 J
53703	Dibenzo[a,h]Anthracene	0.41	U
132649	Dibenzofuran	0.41	U
84662	Diethylphthalate	0.41	U
131113	Dimethylphthalate	0.41	U
206440	Fluoranthene	0.41	U
86737	Fluorene	0.41	U
118741	Hexachlorobenzene	0.41	U
87683	Hexachlorobutadiene	0.41	U
77474	Hexachlorocyclopentadiene	0.41	U
67721	Hexachloroethane	0.41	U
193395	Indeno[1,2,3-cd]pyrene	0.41	U
78591	Isophorone	0.41	U
621647	N-Nitroso-Di-N-Propylamine	0.41	U
62759	N-Nitrosodimethylamine	0.41	U
86306	N-Nitrosodiphenylamine	0.41	U
91203	Naphthalene	0.41	0.16 J
98953	Nitrobenzene	0.41	U
85018	Phenanthrene	0.41	U
129000	Pyrene	0.41	U

Total Target Concentration 0.3

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\52504.txt

**Formle/If**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0084

<b>Sample Number:</b> AB74144	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-03B	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4346	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 5 Dec 2002 16:39	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/02-12/4/02	<b>Percent Solids:</b> 82

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.440	0.83 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	3.010	20 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.520	6.8 J A $\beta$
4		unknown	11.480	0.40 J $\beta$
5	84-69-5	1,2-Benzenedicarboxylic acid, bis(2-meth	11.950	0.17 J
6		unknown	14.580	0.66 J $\beta$
7		unknown	16.400	0.42 J $\beta$

**Total Tentatively Identified Concentration      29**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\52504.txt

**Sample Number:** AB74145      **Matrix:** Soil  
**Client Id:** FRSS-03      **Initial Volume:** 30g  
**Data File:** FZ6198      **Final Volume:** 1ml  
**Date Analyzed:** 7 Dec 2002 1:49      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 90  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.37	U
95501	1,2-Dichlorobenzene	0.37	U
122667	1,2-Diphenylhydrazine	0.37	U
541731	1,3-Dichlorobenzene	0.37	U
106467	1,4-Dichlorobenzene	0.37	U
121142	2,4-Dinitrotoluene	0.37	U
606202	2,6-Dinitrotoluene	0.37	U
91587	2-Chloronaphthalene	0.37	U
91576	2-Methylnaphthalene	0.37	U
88744	2-Nitroaniline	0.37	U
91941	3,3'-Dichlorobenzidine	0.37	U
99092	3-Nitroaniline	0.37	U
101553	4-Bromophenyl-phenylether	0.37	U
106478	4-Chloroaniline	0.37	U
7005723	4-Chlorophenyl-phenylether	0.37	U
100016	4-Nitroaniline	0.37	U
83329	Acenaphthene	0.37	U
208968	Acenaphthylene	0.37	U
120127	Anthracene	0.37	U
92875	Benzidine	0.74	U
56553	Benzo[a]anthracene	0.37	0.19 J
50328	Benzo[a]pyrene	0.37	0.20 J
205992	Benzo[b]fluoranthene	0.37	0.37 J
191242	Benzo[g,h,i]perylene	0.37	U
207089	Benzo[k]fluoranthene	0.37	0.15 J
111911	Bis(2-Chloroethoxy)methane	0.37	U
111444	Bis(2-Chloroethyl)Ether	0.37	U
108601	Bis(2-Chloroisopropyl)ether	0.37	U
117817	Bis(2-Ethylhexyl)phthalate	0.37	U
85687	Butylbenzylphthalate	0.37	0.074 J
86748	Carbazole	0.37	U
218019	Chrysene	0.37	0.21 J
117840	DI-n-octylphthalate	0.37	U
84742	Di-n-butylphthalate	0.37	U
53703	Dibenzo[a,h]Anthracene	0.37	U
132649	Dibenzofuran	0.37	U
84662	Diethylphthalate	0.37	U
131113	Dimethylphthalate	0.37	U
206440	Fluoranthene	0.37	0.32 J
86737	Fluorene	0.37	U
118741	Hexachlorobenzene	0.37	U
87683	Hexachlorobutadiene	0.37	U
77474	Hexachlorocyclopentadiene	0.41	U
67721	Hexachloroethane	0.37	U
193395	Indeno[1,2,3-cd]pyrene	0.37	U
78591	Isophorone	0.37	U
621647	N-Nitroso-Di-N-Propylamine	0.37	U
62759	N-Nitrosodimethylamine	0.37	U
86306	N-Nitrosodiphenylamine	0.37	U
91203	Naphthalene	0.37	0.048 J
98953	Nitrobenzene	0.37	U
85018	Phenanthrene	0.37	0.099 J
129000	Pyrene	0.37	0.36 J

### Total Target Concentration 2

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

*Formle/1j*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0086

<i>Sample Number:</i> AB74145	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-03	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6198	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 7 Dec 2002 1:49	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 90

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	1.900	0.67 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	2.400	22 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.860	25 J $\beta$
4		unknown	10.190	0.25 J
5		unknown	13.550	0.39 J
6		unknown	13.900	0.77 J
7		unknown	14.060	0.50 J
8		unknown	14.260	0.23 J
9		unknown	14.570	0.31 J
10		unknown	14.760	0.85 J
11		unknown	14.900	0.91 J
12		unknown	15.080	0.31 J
13		unknown	15.550	0.40 J
14		unknown	15.710	0.24 J
15		unknown	15.790	0.22 J

*Total Tentatively Identified Concentration*      53

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt



**Sample Number:** AB74146  
**Client Id:** FRSS-05  
**Data File:** FZ6199  
**Date Analyzed:** 7 Dec 2002 2:13  
**Date Received/Extracted:** 12/3/02-12/4/02  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

**Matrix:** Soil  
**Initial Volume:** 30g  
**Final Volume:** 1ml  
**Dilution Factor:** 1  
**Percent Solids:** 97

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.34	U
95501	1,2-Dichlorobenzene	0.34	U
122667	1,2-Diphenylhydrazine	0.34	U
541731	1,3-Dichlorobenzene	0.34	U
106467	1,4-Dichlorobenzene	0.34	U
121142	2,4-Dinitrotoluene	0.34	U
606202	2,6-Dinitrotoluene	0.34	U
91587	2-Chloronaphthalene	0.34	U
91576	2-Methylnaphthalene	0.34	U
88744	2-Nitroaniline	0.34	U
91941	3,3'-Dichlorobenzidine	0.34	U
99092	3-Nitroaniline	0.34	U
101553	4-Bromophenyl-phenylether	0.34	U
106478	4-Chloroaniline	0.34	U
7005723	4-Chlorophenyl-phenylether	0.34	U
100016	4-Nitroaniline	0.34	U
83329	Acenaphthene	0.34	U
208968	Acenaphthylene	0.34	U
120127	Anthracene	0.34	U
92875	Benzidine	0.69	U
56553	Benzo[a]anthracene	0.34	U
50328	Benzo[a]pyrene	0.34	U
205992	Benzo[b]fluoranthene	0.34	U
191242	Benzo[g,h,i]perylene	0.34	U
207089	Benzo[k]fluoranthene	0.34	U
111911	Bis(2-Chloroethoxy)methane	0.34	U
111444	Bis(2-Chloroethyl)Ether	0.34	U
108601	Bis(2-Chloroisopropyl)ether	0.34	U
117817	Bis(2-Ethylhexyl)phthalate	0.34	U
85687	Butylbenzylphthalate	0.34	U
86748	Carbazole	0.34	U
218019	Chrysene	0.34	U
117840	Di-n-octylphthalate	0.34	U
84742	Di-n-butylphthalate	0.34	U
53703	Dibenzo[a,h]Anthracene	0.34	U
132649	Dibenzofuran	0.34	U
84662	Diethylphthalate	0.34	U
131113	Dimethylphthalate	0.34	U
206440	Fluoranthene	0.34	0.055 J
86737	Fluorene	0.34	U
118741	Hexachlorobenzene	0.34	U
87683	Hexachlorobutadiene	0.34	U
77474	Hexachlorocyclopentadiene	0.38	U
67721	Hexachloroethane	0.34	U
193395	Indeno[1,2,3-cd]pyrene	0.34	U
78591	Isophorone	0.34	U
621647	N-Nitroso-Di-N-Propylamine	0.34	U
62759	N-Nitrosodimethylamine	0.34	U
86306	N-Nitrosodiphenylamine	0.34	U
91203	Naphthalene	0.34	U
98953	Nitrobenzene	0.34	U
85018	Phenanthrene	0.34	0.048 J
129000	Pyrene	0.34	0.078 J

**Total Target Concentration 0.18**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

*Formle/1j*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0088

<i>Sample Number:</i> AB74146	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-05	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6199	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 7 Dec 2002 2:13	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 97

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	1.910	0.53 J <i>B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	2.400	17 J <i>B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.850	8.2 J <i>AB</i>
4		unknown	11.470	0.63 J
5	630-02-4	Octacosane	12.540	0.78 J
6	629-94-7	Heneicosane	13.010	0.94 J
7		unknown	13.150	1.0 J
8	593-49-7	Heptacosane	13.460	1.0 J
9		unknown	13.650	0.82 J
10		unknown	13.790	0.71 J
11	593-49-7	Heptacosane	13.910	1.3 J
12		unknown	14.060	0.58 J
13	629-99-2	Pentacosane	14.360	1.5 J
14		unknown	14.790	1.2 J
15		unknown	14.900	4.7 J

*Total Tentatively Identified Concentration*      41

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

Sample Number: AB74147(2X) Matrix: Soil  
 Client Id: FRSS-07 Initial Volume: 30g  
 Data File: FC4408 Final Volume: 1ml  
 Date Analyzed: 9 Dec 2002 21:30 Dilution Factor: 2  
 Date Received/Extracted: 12/3/02-12/4/02 Percent Solids: 97  
 Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.69	U
95501	1,2-Dichlorobenzene	0.69	U
122667	1,2-Diphenylhydrazine	0.69	U
541731	1,3-Dichlorobenzene	0.69	U
106467	1,4-Dichlorobenzene	0.69	U
121142	2,4-Dinitrotoluene	0.69	U
606202	2,6-Dinitrotoluene	0.69	U
91587	2-Chloronaphthalene	0.69	U
91576	2-Methylnaphthalene	0.69	U
88744	2-Nitroaniline	0.69	U
91941	3,3'-Dichlorobenzidine	0.69	U
99092	3-Nitroaniline	0.69	U
101553	4-Bromophenyl-phenylether	0.69	U
106478	4-Chloroaniline	0.69	U
7005723	4-Chlorophenyl-phenylether	0.69	U
100016	4-Nitroaniline	0.69	U
83329	Acenaphthene	0.69	U
208968	Acenaphthylene	0.69	U
120127	Anthracene	0.69	U
92875	Benzidine	1.4	U
56553	Benzo[a]anthracene	0.69	0.17 J
50328	Benzo[a]pyrene	0.69	0.23 J
205992	Benzo[b]fluoranthene	0.69	0.28 J
191242	Benzo[g,h,i]perylene	0.69	U
207089	Benzo[k]fluoranthene	0.69	0.091 J
111911	Bis(2-Chloroethoxy)methane	0.69	U
111444	Bis(2-Chloroethyl)Ether	0.69	U
108601	Bis(2-Chloroisopropyl)ether	0.69	U
117817	Bis(2-Ethylhexyl)phthalate	0.69	1.6 B
85687	Butylbenzylphthalate	0.69	U
86748	Carbazole	0.69	U
218019	Chrysene	0.69	0.19 J
117840	Di-n-octylphthalate	0.69	U
84742	Di-n-butylphthalate	0.69	U
53703	Dibenzo[a,h]Anthracene	0.69	U
132649	Dibenzofuran	0.69	U
84662	Diethylphthalate	0.69	U
131113	Dimethylphthalate	0.69	U
206440	Fluoranthene	0.69	0.11 J
86737	Fluorene	0.69	U
118741	Hexachlorobenzene	0.69	U
87683	Hexachlorobutadiene	0.69	U
77474	Hexachlorocyclopentadiene	0.69	U
67721	Hexachloroethane	0.69	U
193395	Indeno[1,2,3-cd]pyrene	0.69	U
78591	Isophorone	0.69	U
621647	N-Nitroso-Di-N-Propylamine	0.69	U
62759	N-Nitrosodimethylamine	0.69	U
86306	N-Nitrosodiphenylamine	0.69	U
91203	Naphthalene	0.69	U
98953	Nitrobenzene	0.69	U
85018	Phenanthrene	0.69	0.12 J
129000	Pyrene	0.69	0.39 J

Total Target Concentration 3.2

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

*Form 16/17*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0090

<i>Sample Number:</i> AB74147(2X)	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-07	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4408	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 9 Dec 2002 21:30	<i>Dilution Factor:</i> 2
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 97

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	2.410	0.55 <i>J B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	2.950	16 <i>J B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.540	34 <i>J AB</i>
4	3674-66-6	Phenanthrene, 2,5-dimethyl-	13.040	0.32 <i>J</i>
5		unknown	13.390	0.32 <i>J</i>
6	18694-06-9	[4,4'-Bipyrimidine]-2,2',6(1H,1'H,3H)-tr	13.660	0.84 <i>J</i>
7	629-78-7	Heptadecane	13.710	0.94 <i>J</i>
8		unknown	13.870	0.98 <i>J</i>
9		unknown	14.010	1.1 <i>J</i>
10	593-45-3	Octadecane	14.200	0.88 <i>J</i>
11		unknown	14.390	0.81 <i>J</i>
12	638-68-6	Triacontane	14.670	1.1 <i>J</i>
13	593-45-3	Octadecane	15.120	0.90 <i>J</i>
14	646-31-1	Tetracosane	15.560	1.2 <i>J</i>
15		unknown	17.660	5.0 <i>J</i>

*Total Tentatively Identified Concentration*      65

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

**Sample Number:** AB74148 **Matrix:** Soil  
**Client Id:** FRSS-08 **Initial Volume:** 30g  
**Data File:** FC4409 **Final Volume:** 1ml  
**Date Analyzed:** 9 Dec 2002 21:55 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/4/02 **Percent Solids:** 89  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0091

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.37	U
95501	1,2-Dichlorobenzene	0.37	U
122667	1,2-Diphenylhydrazine	0.37	U
541731	1,3-Dichlorobenzene	0.37	U
106467	1,4-Dichlorobenzene	0.37	U
121142	2,4-Dinitrotoluene	0.37	U
606202	2,6-Dinitrotoluene	0.37	U
91587	2-Chloronaphthalene	0.37	U
91576	2-Methylnaphthalene	0.37	0.70
88744	2-Nitroaniline	0.37	U
91941	3,3'-Dichlorobenzidine	0.37	U
99092	3-Nitroaniline	0.37	U
101553	4-Bromophenyl-phenylether	0.37	U
106478	4-Chloroaniline	0.37	U
7005723	4-Chlorophenyl-phenylether	0.37	U
100016	4-Nitroaniline	0.37	U
83329	Acenaphthene	0.37	0.091 J
208968	Acenaphthylene	0.37	0.43
120127	Anthracene	0.37	0.27 J
92875	Benzidine	0.75	U
56553	Benzo[a]anthracene	0.37	0.52
50328	Benzo[a]pyrene	0.37	0.55
205992	Benzo[b]fluoranthene	0.37	1.0
191242	Benzo[g,h,i]perylene	0.37	0.68
207089	Benzo[k]fluoranthene	0.37	0.31 J
111911	Bis(2-Chloroethoxy)methane	0.37	U
111444	Bis(2-Chloroethyl)Ether	0.37	U
108601	Bis(2-Chloroisopropyl)ether	0.37	U
117817	Bis(2-Ethylhexyl)phthalate	0.37	0.65 B
85687	Butylbenzylphthalate	0.37	U
86748	Carbazole	0.37	0.11 J
218019	Chrysene	0.37	0.54
117840	DI-n-octylphthalate	0.37	U
84742	DI-n-butylphthalate	0.37	0.042 J
53703	Dibenzo[a,h]Anthracene	0.37	0.063 J
132649	Dibenzofuran	0.37	0.085 J
84662	Diethylphthalate	0.37	U
131113	Dimethylphthalate	0.37	U
206440	Fluoranthene	0.37	0.70
86737	Fluorene	0.37	0.13 J
118741	Hexachlorobenzene	0.37	U
87683	Hexachlorobutadiene	0.37	U
77474	Hexachlorocyclopentadiene	0.37	U
67721	Hexachloroethane	0.37	U
193395	Indeno[1,2,3-cd]pyrene	0.37	0.47
78591	Isophorone	0.37	U
621647	N-Nitroso-Di-N-Propylamine	0.37	U
62759	N-Nitrosodimethylamine	0.37	U
86306	N-Nitrosodiphenylamine	0.37	U
91203	Naphthalene	0.37	0.93
98953	Nitrobenzene	0.37	U
85018	Phenanthrene	0.37	0.95
129000	Pyrene	0.37	1.6

### Total Target Concentration 11

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

*Formle/If*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0092

<i>Sample Number:</i> AB74148	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-08	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4409	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 9 Dec 2002 21:55	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 89

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.410	0.85 <i>J B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	2.990	19 <i>J B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.490	6.4 <i>J AB</i>
4	100-41-4	Benzene, ethyl-	3.700	0.49 <i>J</i>
5	106-42-3	Benzene, 1,4-dimethyl-	3.810	0.59 <i>J</i>
6	694-87-1	Bicyclo[4.2.0]octa-1,3,5-triene	4.080	0.86 <i>J</i>
7	95-63-6	Benzene, 1,2,4-trimethyl-	5.260	0.91 <i>J</i>
8	629-59-4	Tetradecane	8.840	0.51 <i>J</i>
9	629-62-9	Pentadecane	10.260	0.59 <i>J</i>
10	1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	10.930	1.4 <i>J</i>
11	629-62-9	Pentadecane	11.540	0.56 <i>J</i>
12	593-45-3	Octadecane	12.130	0.50 <i>J</i>
13	35599-77-0	Tridecane, 1-iodo-	13.730	0.72 <i>J</i>
14	593-45-3	Octadecane	14.220	3.6 <i>J</i>
15		unknown	14.550	0.63 <i>J B</i>

*Total Tentatively Identified Concentration*      38

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

**Form 1**  
**ORGANICS SEMIVOLATILE REPORT**

**Sample Number:** AB74149

**Matrix:** Soil

**Client Id:** FRSS-06

**Initial Volume:** 30g

**Data File:** FZ6200

**Final Volume:** 1ml

**Date Analyzed:** 7 Dec 2002 2:37

**Dilution Factor:** 1

**Date Received/Extracted:** 12/3/02-12/4/02

**Percent Solids:** 91

**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0093

<b>CAS #</b>	<b>Compound</b>	<b>PQL/MDL</b>	<b>Concentration (Units: mg/Kg )</b>
120821	1,2,4-Trichlorobenzene	0.37	U
95501	1,2-Dichlorobenzene	0.37	U
122667	1,2-Diphenylhydrazine	0.37	U
541731	1,3-Dichlorobenzene	0.37	U
106467	1,4-Dichlorobenzene	0.37	U
121142	2,4-Dinitrotoluene	0.37	U
606202	2,6-Dinitrotoluene	0.37	U
91587	2-Chloronaphthalene	0.37	U
91576	2-Methylnaphthalene	0.37	0.14 J
88744	2-Nitroaniline	0.37	U
91941	3,3'-Dichlorobenzidine	0.37	U
99092	3-Nitroaniline	0.37	U
101553	4-Bromophenyl-phenylether	0.37	U
106478	4-Chloroaniline	0.37	U
7005723	4-Chlorophenyl-phenylether	0.37	U
100016	4-Nitroaniline	0.37	U
83329	Acenaphthene	0.37	0.084 J
208968	Acenaphthylene	0.37	0.20 J
120127	Anthracene	0.37	0.28 J
92875	Benidine	0.73	U
56553	Benzo[a]anthracene	0.37	0.90
50328	Benzo[a]pyrene	0.37	1.0
205992	Benzo[b]fluoranthene	0.37	1.6
191242	Benzo[g,h,i]perylene	0.37	0.53
207089	Benzo[k]fluoranthene	0.37	0.67
111911	Bis(2-Chloroethoxy)methane	0.37	U
111444	Bis(2-Chloroethyl)Ether	0.37	U
108601	Bis(2-Chloroisopropyl)ether	0.37	U
117817	Bis(2-Ethylhexyl)phthalate	0.37	U
85687	Butylbenzylphthalate	0.37	U
86748	Carbazole	0.37	0.12 J
218019	Chrysene	0.37	0.99
117840	Di-n-octylphthalate	0.37	U
84742	Di-n-butylphthalate	0.37	0.049 J
53703	Dibenzo[a,h]Anthracene	0.37	U
132649	Dibenzofuran	0.37	0.061 J
84662	Diethylphthalate	0.37	U
131113	Dimethylphthalate	0.37	U
206440	Fluoranthene	0.37	1.8
86737	Fluorene	0.37	0.092 J
118741	Hexachlorobenzene	0.37	U
87683	Hexachlorobutadiene	0.37	U
77474	Hexachlorocyclopentadiene	0.40	U
67721	Hexachloroethane	0.37	U
193395	Indeno[1,2,3-cd]pyrene	0.37	0.44
78591	Isophorone	0.37	U
621647	N-Nitroso-Di-N-Propylamine	0.37	U
62759	N-Nitrosodimethylamine	0.37	U
86306	N-Nitrosodiphenylamine	0.37	U
91203	Naphthalene	0.37	0.72
98953	Nitrobenzene	0.37	U
85018	Phenanthrene	0.37	1.2
129000	Pyrene	0.37	2.0

**Total Target Concentration 13**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

*Form 1e/1j*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0094

<i>Sample Number:</i> AB74149	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-06	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6200	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 7 Dec 2002 2:37	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 91

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	1.900	0.56 <i>J B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	2.400	21 <i>J B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.840	7.1 <i>J AB</i>
4	694-87-1	Bicyclo[4.2.0]octa-1,3,5-triene	3.330	0.42 <i>J</i>
5		unknown	4.170	0.63 <i>J</i>
6	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	8.570	0.34 <i>J B</i>
7		unknown	10.180	0.27 <i>J</i>
8		unknown	11.490	0.62 <i>J</i>
9	1072-91-9	1H-Pyrazole, 1,3,5-trimethyl-	13.460	0.40 <i>J</i>
10		unknown	13.820	0.37 <i>J</i>
11		unknown	13.910	0.62 <i>J</i>
12		unknown	14.350	0.49 <i>J</i>
13	638-68-6	Triacontane	14.790	0.48 <i>J</i>
14	74646-37-0	1-Tridecyn-4-ol	14.910	0.79 <i>J</i>

*Total Tentatively Identified Concentration*      34

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt



**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0095

**Sample Number:** AB74150      **Matrix:** Soil  
**Client Id:** FRSS-04      **Initial Volume:** 30g  
**Data File:** FZ6160      **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 16:54      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 90  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.37	U
95501	1,2-Dichlorobenzene	0.37	U
122667	1,2-Diphenylhydrazine	0.37	U
541731	1,3-Dichlorobenzene	0.37	U
106467	1,4-Dichlorobenzene	0.37	U
95954	2,4,5-Trichlorophenol	0.37	U
88062	2,4,6-Trichlorophenol	0.37	U
120832	2,4-Dichlorophenol	0.37	U
105679	2,4-Dimethylphenol	0.37	U
51285	2,4-Dinitrophenol	0.37	U
121142	2,4-Dinitrotoluene	0.37	U
606202	2,6-Dinitrotoluene	0.37	U
91587	2-Chloronaphthalene	0.37	U
95578	2-Chlorophenol	0.37	U
91576	2-Methylnaphthalene	0.37	0.11 J
95487	2-Methylphenol	0.37	U
88744	2-Nitroaniline	0.37	U
88755	2-Nitrophenol	0.37	U
106445	3&4-Methylphenol	0.37	U
91941	3,3'-Dichlorobenzidine	0.37	U
99092	3-Nitroaniline	0.37	U
534521	4,6-Dinitro-2-methylphenol	0.37	U
101553	4-Bromophenyl-phenylether	0.37	U
59507	4-Chloro-3-methylphenol	0.37	U
106478	4-Chloroaniline	0.37	U
7005723	4-Chlorophenyl-phenylether	0.37	U
100016	4-Nitroaniline	0.37	U
100027	4-Nitrophenol	0.37	U
83329	Acenaphthene	0.37	0.088 J
208968	Acenaphthylene	0.37	0.15 J
120127	Anthracene	0.37	0.36 J
92875	Benazidine	0.74	U
56553	Benzo[a]anthracene	0.37	1.9
50328	Benzo[a]pyrene	0.37	1.7
205992	Benzo[b]fluoranthene	0.37	2.6
191242	Benzo[g,h,i]perylene	0.37	0.69
207089	Benzo[k]fluoranthene	0.37	0.82
111911	Bis(2-Chloroethoxy)methane	0.37	U
111444	Bis(2-Chloroethyl)Ether	0.37	U
108601	Bis(2-Chloroisopropyl)ether	0.37	U
117817	Bis(2-Ethylhexyl)phthalate	0.37	U
85687	Butylbenzylphthalate	0.37	U
86748	Carbazole	0.37	0.26 J
218019	Chrysene	0.37	1.7
117840	Di-n-octylphthalate	0.37	U
84742	Di-n-butylphthalate	0.37	U
53703	Dibenzo[a,h]Anthracene	0.37	0.075 J
132649	Dibenzofuran	0.37	0.048 J
84662	Diethylphthalate	0.37	U
131113	Dimethylphthalate	0.37	U
206440	Fluoranthene	0.37	2.8
86737	Fluorene	0.37	0.084 J
118741	Hexachlorobenzene	0.37	U
87683	Hexachlorobutadiene	0.37	U
77474	Hexachlorocyclopentadiene	0.41	U
67721	Hexachloroethane	0.37	U
193395	Indeno[1,2,3-cd]pyrene	0.37	0.74
78591	Isophorone	0.37	U
621647	N-Nitroso-Di-N-Propylamine	0.37	U
62759	N-Nitrosodimethylamine	0.37	U
86306	N-Nitrosodiphenylamine	0.37	U
91203	Naphthalene	0.37	0.57
98953	Nitrobenzene	0.37	U
87865	Pentachlorophenol	0.37	U
85018	Phenanthrene	0.37	1.3
108952	Phenol	0.37	U
129000	Pyrene	0.37	2.1

**Total Target Concentration 18**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0096

<b>Sample Number:</b> AB74150 <b>Client Id:</b> FRSS-04 <b>Data File:</b> FZ6160 <b>Date Analyzed:</b> 5 Dec 2002 16:54 <b>Date Received/Extracted:</b> 12/3/02-12/4/02	<b>Matrix:</b> Soil <b>Initial Volume:</b> 30g <b>Final Volume:</b> 1ml <b>Dilution Factor:</b> 1 <b>Percent Solids:</b> 90
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Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	1.910	0.38 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	2.400	12 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.840	4.1 J A $\beta$
4	100-42-5	Styrene	3.330	0.33 J
5	622-97-9	Benzene, 1-ethenyl-4-methyl-	4.160	0.38 J
6	111-01-3	Tetracosane, 2,6,10,15,19,23-hexamethyl-	8.110	0.17 J
7	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	8.570	0.17 J $\beta$
8	613-12-7	Anthracene, 2-methyl-	9.370	0.18 J
9	613-12-7	Anthracene, 2-methyl-	9.410	0.27 J
10	203-64-5	4H-Cyclopenta[def]phenanthrene	9.510	0.44 J
11	35465-71-5	2-PHENYLNAPHTHALENE	9.750	0.20 J
12	629-50-5	Tridecane	10.180	0.25 J
13	834-99-1	Phenanthrene, 1-methoxy-	10.450	0.24 J
14	243-17-4	11H-Benzo[b]fluorene	10.990	0.27 J
15	2381-21-7	Pyrene, 1-methyl-	11.120	0.20 J
16	82-05-3	7H-Benz[de]anthracen-7-one	11.690	0.17 J
17	203-12-3	Benzo[ghi]fluoranthene	11.900	0.19 J
18	13375-54-7	Benzo(a)carbazole	12.540	0.16 J
19	3351-28-8	Chrysene, 1-methyl-	12.770	0.16 J
20		unknown	13.910	0.17 J
21	198-55-0	Perylene	14.050	0.70 J
22		unknown	15.270	0.33 J
23	58241-02-4	1,3,5,5-Tetramethyl-7-keto-4'-chloro-1',	15.410	0.25 J
24		unknown	15.680	0.16 J

**Total Tentatively Identified Concentration      22**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\35530.txt

**Sample Number:** AB74151      **Matrix:** Soil  
**Client Id:** FRSS-02      **Initial Volume:** 30g  
**Data File:** FZ6162      **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 17:40      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 90  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.37	U
95501	1,2-Dichlorobenzene	0.37	U
122667	1,2-Diphenylhydrazine	0.37	U
541731	1,3-Dichlorobenzene	0.37	U
106467	1,4-Dichlorobenzene	0.37	U
121142	2,4-Dinitrotoluene	0.37	U
606202	2,6-Dinitrotoluene	0.37	U
91587	2-Chloronaphthalene	0.37	U
91576	2-Methylnaphthalene	0.37	0.14 J
88744	2-Nitroaniline	0.37	U
91941	3,3'-Dichlorobenzidine	0.37	U
99092	3-Nitroaniline	0.37	U
101553	4-Bromophenyl-phenylether	0.37	U
106478	4-Chloroaniline	0.37	U
7005723	4-Chlorophenyl-phenylether	0.37	U
100016	4-Nitroaniline	0.37	U
83329	Acenaphthene	0.37	0.055 J
208968	Acenaphthylene	0.37	0.21 J
120127	Anthracene	0.37	0.20 J
92875	Benzidine	0.74	U
56553	Benzo[a]anthracene	0.37	0.94
50328	Benzo[a]pyrene	0.37	1.0
205992	Benzo[b]fluoranthene	0.37	1.7
191242	Benzo[g,h,i]perylene	0.37	0.46
207089	Benzo[k]fluoranthene	0.37	0.62
111911	Bis(2-Chloroethoxy)methane	0.37	U
111444	Bis(2-Chloroethyl)Ether	0.37	U
108601	Bis(2-Chloroisopropyl)ether	0.37	U
117817	Bis(2-Ethylhexyl)phthalate	0.37	U
85687	Butylbenzylphthalate	0.37	0.060 J
86748	Carbazole	0.37	0.081 J
218019	Chrysene	0.37	1.0
117840	Di-n-octylphthalate	0.37	U
84742	Di-n-butylphthalate	0.37	U
53703	Dibenzo[a,h]Anthracene	0.37	U
132649	Dibenzofuran	0.37	U
84662	Diethylphthalate	0.37	U
131113	Dimethylphthalate	0.37	U
206440	Fluoranthene	0.37	1.6
86737	Fluorene	0.37	0.087 J
118741	Hexachlorobenzene	0.37	U
87683	Hexachlorobutadiene	0.37	U
77474	Hexachlorocyclopentadiene	0.41	U
67721	Hexachloroethane	0.37	U
193395	Indeno[1,2,3-cd]pyrene	0.37	0.41
78591	Isophorone	0.37	U
621647	N-Nitroso-Di-N-Propylamine	0.37	U
62759	N-Nitrosodimethylamine	0.37	U
86306	N-Nitrosodiphenylamine	0.37	U
91203	Naphthalene	0.37	0.97
98953	Nitrobenzene	0.37	U
85018	Phenanthrene	0.37	0.84
129000	Pyrene	0.37	1.4

**Total Target Concentration 12**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

*Formle/If*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0098

<i>Sample Number:</i> AB74151	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSS-02	<i>Initial Volume:</i> 30g
<i>Data File:</i> FZ6162	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 17:40	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 90

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	1.900	0.71 <i>J</i> $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	2.400	16 <i>J</i> $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.850	6.0 <i>J</i> <i>A</i> $\beta$
4	100-41-4	Benzene, ethyl-	3.050	0.29 <i>J</i>
5	100-42-5	Styrene	3.340	0.54 <i>J</i>
6	611-14-3	Benzene, 1-ethyl-2-methyl-	3.930	0.38 <i>J</i>
7	108-67-8	Benzene, 1,3,5-trimethyl-	4.190	0.64 <i>J</i>
8	95-13-6	1H-Indene	4.560	0.26 <i>J</i>
9	74645-98-0	Dodecane, 2,7,10-trimethyl-	8.210	0.47 <i>J</i>
10	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	8.780	0.23 <i>J</i>
11	629-92-5	Nonadecane	9.280	0.24 <i>J</i>
12	203-64-5	4H-Cyclopenta[def]phenanthrene	9.600	0.53 <i>J</i>
13	243-17-4	11H-Benzo[b]fluorene	11.090	0.23 <i>J</i>
14	192-97-2	Benzo[e]pyrene	14.160	0.62 <i>J</i>
15		unknown	15.900	0.67 <i>J</i>

*Total Tentatively Identified Concentration*      28

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0099

**Sample Number:** AB74152      **Matrix:** Soil  
**Client Id:** FRSS-14      **Initial Volume:** 30g  
**Data File:** FZ6163      **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 18:03      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 86  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.39	U
95501	1,2-Dichlorobenzene	0.39	U
122667	1,2-Diphenylhydrazine	0.39	U
541731	1,3-Dichlorobenzene	0.39	U
106467	1,4-Dichlorobenzene	0.39	U
121142	2,4-Dinitrotoluene	0.39	U
606202	2,6-Dinitrotoluene	0.39	U
91587	2-Chloronaphthalene	0.39	U
91576	2-Methylnaphthalene	0.39	0.050 J
88744	2-Nitroaniline	0.39	U
91941	3,3'-Dichlorobenzidine	0.39	U
99092	3-Nitroaniline	0.39	U
101553	4-Bromophenyl-phenylether	0.39	U
106478	4-Chloroaniline	0.39	U
7005723	4-Chlorophenyl-phenylether	0.39	U
100016	4-Nitroaniline	0.39	U
83329	Acenaphthene	0.39	0.068 J
208968	Acenaphthylene	0.39	0.41
120127	Anthracene	0.39	0.29 J
92875	Benzidine	0.78	U
56553	Benzo[a]anthracene	0.39	1.3
50328	Benzo[a]pyrene	0.39	1.5
205992	Benzo[b]fluoranthene	0.39	2.9
191242	Benzo[g,h,i]perylene	0.39	0.58
207089	Benzo[k]fluoranthene	0.39	0.72
111911	Bis(2-Chloroethoxy)methane	0.39	U
111444	Bis(2-Chloroethyl)Ether	0.39	U
108601	Bis(2-Chloroisopropyl)ether	0.39	U
117817	Bis(2-Ethylhexyl)phthalate	0.39	U
85687	Butylbenzylphthalate	0.39	0.10 J
86748	Carbazole	0.39	0.16 J
218019	Chrysene	0.39	1.4
117840	DI-n-octylphthalate	0.39	U
84742	DI-n-butylphthalate	0.39	0.099 J
53703	Dibenzo[a,h]Anthracene	0.39	U
132649	Dibenzofuran	0.39	0.063 J
84662	Diethylphthalate	0.39	U
131113	Dimethylphthalate	0.39	U
206440	Fluoranthene	0.39	2.6
86737	Fluorene	0.39	0.085 J
118741	Hexachlorobenzene	0.39	U
87683	Hexachlorobutadiene	0.39	U
77474	Hexachlorocyclopentadiene	0.43	U
67721	Hexachloroethane	0.39	U
193395	Indeno[1,2,3-cd]pyrene	0.39	0.58
78591	Isophorone	0.39	U
621647	N-Nitroso-Di-N-Propylamine	0.39	U
62759	N-Nitrosodimethylamine	0.39	U
86306	N-Nitrosodiphenylamine	0.39	U
91203	Naphthalene	0.39	0.13 J
98953	Nitrobenzene	0.39	U
85018	Phenanthrene	0.39	1.1
129000	Pyrene	0.39	2.1

**Total Target Concentration 16**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\52504.txt

**Form 1e/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0100

<b>Sample Number:</b> AB74152	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSS-14	<b>Initial Volume:</b> 30g
<b>Data File:</b> FZ6163	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 5 Dec 2002 18:03	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/02-12/4/02	<b>Percent Solids:</b> 86

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	1.900	0.55 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	2.390	17 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.840	5.5 J AB
4	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	8.680	0.24 J B
5	613-12-7	Anthracene, 2-methyl-	9.470	0.19 J
6	779-02-2	Anthracene, 9-methyl-	9.500	0.19 J
7	84-65-1	9,10-Anthracenedione	9.880	0.20 J
8	3674-66-6	Phenanthrene, 2,5-dimethyl-	10.170	0.24 J
9	5737-13-3	CYCLOPENTA(DEF)PHENANTHRENONE	10.270	0.30 J
10		unknown	10.550	0.27 J
11	2381-21-7	Pyrene, 1-methyl-	11.100	0.24 J
12	192-97-2	Benzo[e]pyrene	13.930	0.38 J
13	629-92-5	Nonadecane	14.040	0.21 J
14	192-97-2	Benzo[e]pyrene	14.160	0.86 J

**Total Tentatively Identified Concentration      26**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\52504.txt

**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0101

**Sample Number:** AB74153(MSD:AB      **Matrix:** Soil  
**Client Id:** FRSS-01 MSD      **Initial Volume:** 30g  
**Data File:** FZ6155      **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 14:48      **Dilution Factor:** 3  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 91  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	1.1	1.7
95501	1,2-Dichlorobenzene	1.1	U
122667	1,2-Diphenylhydrazine	1.1	U
541731	1,3-Dichlorobenzene	1.1	1.9
106467	1,4-Dichlorobenzene	1.1	U
121142	2,4-Dinitrotoluene	1.1	1.4
606202	2,6-Dinitrotoluene	1.1	U
91587	2-Chloronaphthalene	1.1	U
91576	2-Methylnaphthalene	1.1	U
88744	2-Nitroaniline	1.1	U
91941	3,3'-Dichlorobenzidine	1.1	U
99092	3-Nitroaniline	1.1	U
101553	4-Bromophenyl-phenylether	1.1	U
106478	4-Chloroaniline	1.1	U
7005723	4-Chlorophenyl-phenylether	1.1	U
100016	4-Nitroaniline	1.1	U
83329	Acenaphthene	1.1	2.2
208968	Acenaphthylene	1.1	U
120127	Anthracene	1.1	U
92875	Benidine	2.2	U
56553	Benzo[a]anthracene	1.1	0.30 J
50328	Benzo[a]pyrene	1.1	0.41 J
205992	Benzo[b]fluoranthene	1.1	0.63 J
191242	Benzo[g,h,i]perylene	1.1	0.13 J
207089	Benzo[k]fluoranthene	1.1	0.22 J
111911	Bis(2-Chloroethoxy)methane	1.1	U
111444	Bis(2-Chloroethyl)Ether	1.1	U
108601	Bis(2-Chloroisopropyl)ether	1.1	U
117817	Bis(2-Ethylhexyl)phthalate	1.1	U
85687	Butylbenzylphthalate	1.1	U
86748	Carbazole	1.1	U
218019	Chrysene	1.1	0.41 J
117840	Di-n-octylphthalate	1.1	U
84742	Di-n-butylphthalate	1.1	U
53703	Dibenzo[a,h]Anthracene	1.1	U
132649	Dibenzofuran	1.1	U
84662	Diethylphthalate	1.1	U
131113	Dimethylphthalate	1.1	U
206440	Fluoranthene	1.1	0.60 J
86737	Fluorene	1.1	U
118741	Hexachlorobenzene	1.1	U
87683	Hexachlorobutadiene	1.1	U
77474	Hexachlorocyclopentadiene	1.2	U
67721	Hexachloroethane	1.1	U
193395	Indeno[1,2,3-cd]pyrene	1.1	0.15 J
78591	Isophorone	1.1	0.78 J
621647	N-Nitroso-Di-N-Propylamine	1.1	U
62759	N-Nitrosodimethylamine	1.1	U
86306	N-Nitrosodiphenylamine	1.1	U
91203	Naphthalene	1.1	U
98953	Nitrobenzene	1.1	U
85018	Phenanthrene	1.1	0.41 J
129000	Pyrene	1.1	2.6

**Total Target Concentration 14**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\52504.txt

**Formle/If**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0102

**Sample Number:** AB74153(MSD:AB741      **Matrix:** Soil  
**Client Id:** FRSS-01 MSD      **Initial Volume:** 30g  
**Data File:** FZ6155      **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 14:48      **Dilution Factor:** 3  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 91

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1	141-79-7	3-Penten-2-one, 4-methyl-	2.380	8.9 J $\beta$
2	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.820	2.7 J $A\beta$
3	95-57-8	Phenol, 2-chloro-	4.110	2.2 J
4	621-64-7	1-Propanamine, N-nitroso-N-propyl-	4.640	1.3 J
5	59-50-7	Phenol, 4-chloro-3-methyl-	5.870	2.8 J
6	87-86-5	Phenol, pentachloro-	8.510	0.72 J
7		unknown	13.890	0.81 J
8		unknown	14.020	0.57 J
9		unknown	14.320	0.84 J
10		unknown	14.540	0.68 J
11		unknown	14.870	1.9 J
12		unknown	15.180	0.52 J
13		unknown	15.230	1.2 J
14		unknown	15.690	0.57 J
15		unknown	15.740	0.62 J

**Total Tentatively Identified Concentration**      26

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\52504.txt



**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0103

**Sample Number:** AB74154      **Matrix:** Soil  
**Client Id:** FRSB-02A      **Initial Volume:** 30g  
**Data File:** FC4347      **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 17:05      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 88  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.38	U
95501	1,2-Dichlorobenzene	0.38	U
122667	1,2-Diphenylhydrazine	0.38	U
541731	1,3-Dichlorobenzene	0.38	U
106467	1,4-Dichlorobenzene	0.38	U
121142	2,4-Dinitrotoluene	0.38	U
606202	2,6-Dinitrotoluene	0.38	U
91587	2-Chloronaphthalene	0.38	U
91576	2-Methylnaphthalene	0.38	U
88744	2-Nitroaniline	0.38	U
91941	3,3'-Dichlorobenzidine	0.38	U
99092	3-Nitroaniline	0.38	U
101553	4-Bromophenyl-phenylether	0.38	U
106478	4-Chloroaniline	0.38	U
7005723	4-Chlorophenyl-phenylether	0.38	U
100016	4-Nitroaniline	0.38	U
83329	Acenaphthene	0.38	U
208968	Acenaphthylene	0.38	U
120127	Anthracene	0.38	U
92875	Benzidine	0.76	U
56553	Benzo[a]anthracene	0.38	0.073 J
50328	Benzo[a]pyrene	0.38	0.095 J
205992	Benzo[b]fluoranthene	0.38	0.15 J
191242	Benzo[g,h,i]perylene	0.38	0.055 J
207089	Benzo[k]fluoranthene	0.38	0.047 J
111911	Bis(2-Chloroethoxy)methane	0.38	U
111444	Bis(2-Chloroethyl)Ether	0.38	U
108601	Bis(2-Chloroisopropyl)ether	0.38	U
117817	Bis(2-Ethylhexyl)phthalate	0.38	0.22 JB
85687	Butylbenzylphthalate	0.38	
86748	Carbazole	0.38	
218019	Chrysene	0.38	0.11 J
117840	DI-n-octylphthalate	0.38	U
84742	DI-n-butylphthalate	0.38	0.11 J
53703	Dibenzo[a,h]Anthracene	0.38	
132649	Dibenzofuran	0.38	U
84662	Diethylphthalate	0.38	U
131113	Dimethylphthalate	0.38	U
206440	Fluoranthene	0.38	0.23 J
86737	Fluorene	0.38	U
118741	Hexachlorobenzene	0.38	U
87683	Hexachlorobutadiene	0.38	U
77474	Hexachlorocyclopentadiene	0.38	U
67721	Hexachloroethane	0.38	U
193395	Indeno[1,2,3-cd]pyrene	0.38	0.056 J
78591	Isophorone	0.38	U
621647	N-Nitroso-Di-N-Propylamine	0.38	U
62759	N-Nitrosodimethylamine	0.38	U
86306	N-Nitrosodiphenylamine	0.38	U
91203	Naphthalene	0.38	U
98953	Nitrobenzene	0.38	U
85018	Phenanthrene	0.38	0.18 J
129000	Pyrene	0.38	0.18 J

**Total Target Concentration 1.5**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\52504.txt

*Formle/If*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0104

<i>Sample Number:</i> AB74154	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-02A	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4347	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 17:05	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 88

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.450	0.99 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	3.010	23 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.520	8.2 J $\beta$
4	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	11.480	0.51 J
5	84-69-5	1,2-Benzenedicarboxylic acid, bis(2-meth	11.950	0.18 J
6		unknown	14.580	0.85 J $\beta$
7		unknown	16.240	0.31 J
8	629-54-9	Hexadecanamide	16.400	0.47 J
9		unknown	17.720	0.17 J

*Total Tentatively Identified Concentration*      35

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

# FORM 1

## ORGANICS SEMIVOLATILE REPORT

Sample Number: AB74155

Matrix: Soil

Client Id: FRSB-02B

Initial Volume: 30g

Data File: FC4341

Final Volume: 1ml

Date Analyzed: 5 Dec 2002 14:31

Dilution Factor: 1

Date Received/Extracted: 12/3/02-12/4/02

Percent Solids: 80

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0105

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.42	U
95501	1,2-Dichlorobenzene	0.42	U
122667	1,2-Diphenylhydrazine	0.42	U
541731	1,3-Dichlorobenzene	0.42	U
106467	1,4-Dichlorobenzene	0.42	U
121142	2,4-Dinitrotoluene	0.42	U
606202	2,6-Dinitrotoluene	0.42	U
91587	2-Chloronaphthalene	0.42	U
91576	2-Methylnaphthalene	0.42	U
88744	2-Nitroaniline	0.42	U
91941	3,3'-Dichlorobenzidine	0.42	U
99092	3-Nitroaniline	0.42	U
101553	4-Bromophenyl-phenylether	0.42	U
106478	4-Chloroaniline	0.42	U
7005723	4-Chlorophenyl-phenylether	0.42	U
100016	4-Nitroaniline	0.42	U
83329	Acenaphthene	0.42	U
208968	Acenaphthylene	0.42	U
120127	Anthracene	0.42	U
92875	Benzidine	0.83	U
56553	Benzo[a]anthracene	0.42	U
50328	Benzo[a]pyrene	0.42	U
205992	Benzo[b]fluoranthene	0.42	U
191242	Benzo[g,h,i]perylene	0.42	U
207089	Benzo[k]fluoranthene	0.42	U
111911	Bis(2-Chloroethoxy)methane	0.42	U
111444	Bis(2-Chloroethyl)Ether	0.42	U
108601	Bis(2-Chloroisopropyl)ether	0.42	U
117817	Bis(2-Ethylhexyl)phthalate	0.42	0.23 JB
85687	Butylbenzylphthalate	0.42	U
86748	Carbazole	0.42	U
218019	Chrysene	0.42	U
117840	Di-n-octylphthalate	0.42	U
84742	Di-n-butylphthalate	0.42	0.097 J
53703	Dibenzo[a,h]Anthracene	0.42	U
132649	Dibenzofuran	0.42	U
84662	Diethylphthalate	0.42	U
131113	Dimethylphthalate	0.42	U
206440	Fluoranthene	0.42	U
86737	Fluorene	0.42	U
118741	Hexachlorobenzene	0.42	U
87683	Hexachlorobutadiene	0.42	U
77474	Hexachlorocyclopentadiene	0.42	U
67721	Hexachloroethane	0.42	U
193395	Indeno[1,2,3-cd]pyrene	0.42	U
78591	Isophorone	0.42	U
621647	N-Nitroso-Di-N-Propylamine	0.42	U
62759	N-Nitrosodimethylamine	0.42	U
86306	N-Nitrosodiphenylamine	0.42	U
91203	Naphthalene	0.42	U
98953	Nitrobenzene	0.42	U
85018	Phenanthrene	0.42	U
129000	Pyrene	0.42	U

**Total Target Concentration 0.33**

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\52504.txt

*Formle/f*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0106

<i>Sample Number:</i> AB74155	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-02B	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4341	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 14:31	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 80

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.440	0.86 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	3.010	21 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.520	7.7 J A $\beta$
4		unknown	10.230	0.17 J
5		unknown	11.480	1.3 J
6		unknown	14.580	1.9 J $\beta$
7	1120-16-7	Dodecanamide	16.400	1.2 J

*Total Tentatively Identified Concentration*      34

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

**Form 1**  
ORGANICS SEMIVOLATILE REPORT

HC 0107

**Sample Number:** AB74156      **Matrix:** Soil  
**Client Id:** FRSB-10A      **Initial Volume:** 30g  
**Data File:** FC4342      **Final Volume:** 1ml  
**Date Analyzed:** 5 Dec 2002 14:56      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/02-12/4/02      **Percent Solids:** 83  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.40	U
95501	1,2-Dichlorobenzene	0.40	U
122667	1,2-Diphenylhydrazine	0.40	U
541731	1,3-Dichlorobenzene	0.40	U
106467	1,4-Dichlorobenzene	0.40	U
121142	2,4-Dinitrotoluene	0.40	U
606202	2,6-Dinitrotoluene	0.40	U
91587	2-Chloronaphthalene	0.40	U
91576	2-Methylnaphthalene	0.40	U
88744	2-Nitroaniline	0.40	U
91941	3,3'-Dichlorobenzidine	0.40	U
99092	3-Nitroaniline	0.40	U
101553	4-Bromophenyl-phenylether	0.40	U
106478	4-Chloroaniline	0.40	U
7005723	4-Chlorophenyl-phenylether	0.40	U
100016	4-Nitroaniline	0.40	U
83329	Acenaphthene	0.40	U
208968	Acenaphthylene	0.40	U
120127	Anthracene	0.40	U
92875	Benidine	0.80	U
56553	Benzo[a]anthracene	0.40	U
50328	Benzo[a]pyrene	0.40	U
205992	Benzo[b]fluoranthene	0.40	U
191242	Benzo[g,h,i]perylene	0.40	U
207089	Benzo[k]fluoranthene	0.40	U
111911	Bis(2-Chloroethoxy)methane	0.40	U
111444	Bis(2-Chloroethyl)Ether	0.40	U
108601	Bis(2-Chloroisopropyl)ether	0.40	U
117817	Bis(2-Ethylhexyl)phthalate	0.40	0.14 JB
85687	Butylbenzylphthalate	0.40	U
86748	Carbazole	0.40	U
218019	Chrysene	0.40	U
117840	DI-n-octylphthalate	0.40	U
84742	DI-n-butylphthalate	0.40	0.041 J
53703	Dibenzo[a,h]Anthracene	0.40	U
132649	Dibenzofuran	0.40	U
84662	Diethylphthalate	0.40	U
131113	Dimethylphthalate	0.40	U
206440	Fluoranthene	0.40	U
86737	Fluorene	0.40	U
118741	Hexachlorobenzene	0.40	U
87683	Hexachlorobutadiene	0.40	U
77474	Hexachlorocyclopentadiene	0.40	U
67721	Hexachloroethane	0.40	U
193395	Indeno[1,2,3-cd]pyrene	0.40	U
78591	Isophorone	0.40	U
621647	N-Nitroso-Di-N-Propylamine	0.40	U
62759	N-Nitrosodimethylamine	0.40	U
86306	N-Nitrosodiphenylamine	0.40	U
91203	Naphthalene	0.40	U
98953	Nitrobenzene	0.40	U
85018	Phenanthrene	0.40	U
129000	Pyrene	0.40	U

**Total Target Concentration 0.18**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\52504.txt

*Formle/1f*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0108

<i>Sample Number:</i> AB74156	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-10A	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4342	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 14:56	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 83

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.450	0.75 <i>J</i> <i>B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	3.010	20 <i>J</i> <i>B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.520	7.1 <i>J</i> <i>AB</i>
4		unknown	11.480	0.65 <i>J</i>
5		unknown	14.580	0.92 <i>J</i> <i>B</i>
6	301-02-0	9-Octadecenamide, (Z)-	16.400	0.55 <i>J</i>

*Total Tentatively Identified Concentration*      30

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt

# Form 1

## ORGANICS SEMIVOLATILE REPORT

**Sample Number:** AB74157

**Matrix:** Soil

**Client Id:** FRSB-10B

**Initial Volume:** 30g

**Data File:** FC4338

**Final Volume:** 1ml

**Date Analyzed:** 5 Dec 2002 13:13

**Dilution Factor:** 1

**Date Received/Extracted:** 12/3/02-12/4/02

**Percent Solids:** 80

**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0109

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.42	U
95501	1,2-Dichlorobenzene	0.42	U
122667	1,2-Diphenylhydrazine	0.42	U
541731	1,3-Dichlorobenzene	0.42	U
106467	1,4-Dichlorobenzene	0.42	U
121142	2,4-Dinitrotoluene	0.42	U
606202	2,6-Dinitrotoluene	0.42	U
91587	2-Chloronaphthalene	0.42	U
91576	2-Methylnaphthalene	0.42	U
88744	2-Nitroaniline	0.42	U
91941	3,3'-Dichlorobenzidine	0.42	U
99092	3-Nitroaniline	0.42	U
101553	4-Bromophenyl-phenylether	0.42	U
106478	4-Chloroaniline	0.42	U
7005723	4-Chlorophenyl-phenylether	0.42	U
100016	4-Nitroaniline	0.42	U
83329	Acenaphthene	0.42	U
208968	Acenaphthylene	0.42	U
120127	Anthracene	0.42	U
92875	Benzidine	0.83	U
56553	Benzo[a]anthracene	0.42	U
50328	Benzo[a]pyrene	0.42	U
205992	Benzo[b]fluoranthene	0.42	U
191242	Benzo[g,h,i]perylene	0.42	U
207089	Benzo[k]fluoranthene	0.42	U
111911	Bis(2-Chloroethoxy)methane	0.42	U
111444	Bis(2-Chloroethyl)Ether	0.42	U
108601	Bis(2-Chloroisopropyl)ether	0.42	U
117817	Bis(2-Ethylhexyl)phthalate	0.42	0.13 JB
85687	Butylbenzylphthalate	0.42	U
86748	Carbazole	0.42	U
218019	Chrysene	0.42	U
117840	Di-n-octylphthalate	0.42	U
84742	Di-n-butylphthalate	0.42	U
53703	Dibenzo[a,h]Anthracene	0.42	U
132649	Dibenzofuran	0.42	U
84662	Diethylphthalate	0.42	U
131113	Dimethylphthalate	0.42	U
206440	Fluoranthene	0.42	U
86737	Fluorene	0.42	U
118741	Hexachlorobenzene	0.42	U
87683	Hexachlorobutadiene	0.42	U
77474	Hexachlorocyclopentadiene	0.42	U
67721	Hexachloroethane	0.42	U
193395	Indeno[1,2,3-cd]pyrene	0.42	U
78591	Isophorone	0.42	U
621647	N-Nitroso-Di-N-Propylamine	0.42	U
62759	N-Nitrosodimethylamine	0.42	U
86306	N-Nitrosodiphenylamine	0.42	U
91203	Naphthalene	0.42	U
98953	Nitrobenzene	0.42	U
85018	Phenanthrene	0.42	U
129000	Pyrene	0.42	U

**Total Target Concentration 0.13**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\52504.txt

*Formle/1f*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0110

<i>Sample Number:</i> AB74157	<i>Matrix:</i> Soil
<i>Client Id:</i> FRSB-10B	<i>Initial Volume:</i> 30g
<i>Data File:</i> FC4338	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 5 Dec 2002 13:13	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/3/02-12/4/02	<i>Percent Solids:</i> 80

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	2.440	0.98 J <i>B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	3.010	24 J <i>B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.520	8.1 J <i>AB</i>
4		unknown	11.480	0.54 J
5		unknown	14.580	0.84 J <i>B</i>
6		unknown	16.400	0.41 J <i>B</i>

*Total Tentatively Identified Concentration*      35

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\52504.txt



**Form I**  
**ORGANICS PCB REPORT**

HC 0111

<b>Sample Number:</b> AB74138	<b>Matrix:</b> Water
<b>Client Id:</b> FB120202	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> GC44485	<b>Final Volume:</b> 10ml
<b>Date Analyzed:</b> 4 Dec 2002 17:11	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/02-12/04/02	<b>Percent Solids:</b> 0
<b>Column:</b> J&W-Scientific db-608/1701 30m .32mmID	

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: ug/L )</i>
12674112	Aroclor-1016	0.50	U
11104282	Aroclor-1221	0.50	U
11141165	Aroclor-1232	0.50	U
53469219	Aroclor-1242	0.50	U
12672296	Aroclor-1248	0.50	U
11097691	Aroclor-1254	0.50	U
11096825	Aroclor-1260	0.50	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form I**  
**ORGANICS PCB REPORT**

HC 0112

**Sample Number:** AB74150

**Matrix:** Soil

**Client Id:** FRSS-04

**Initial Volume:** 30g

**Data File:** GC44552

**Final Volume:** 10ml

**Date Analyzed:** 9 Dec 2002 12:53

**Dilution Factor:** 1

**Date Received/Extracted:** 12/3/02-12/04/02

**Percent Solids:** 90

**Column:** J&W-Scientific db-608/1701 30m .32mmID

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: mg/Kg )</i>
12674112	Aroclor-1016	0.019	U
11104282	Aroclor-1221	0.019	U
11141165	Aroclor-1232	0.019	U
53469219	Aroclor-1242	0.019	U
12672296	Aroclor-1248	0.019	U
11097691	Aroclor-1254	0.019	U
11096825	Aroclor-1260	0.019	0.080

**Total Target Concentration** 0.08

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
ORGANICS PESTICIDE REPORT

HC 0113

<b>Sample Number:</b> AB74138	<b>Matrix:</b> Water
<b>Client Id:</b> FB120202	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> GE0640	<b>Final Volume:</b> 10ml
<b>Date Analyzed:</b> 6 Dec 2002 00:38	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/3/2002-12/04/02	<b>Percent Solids:</b> 0
<b>Column:</b> J&W-Scientific db-608/1701 30m .32mmID	

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
309002	Aldrin	0.10	U
319846	Alpha-BHC	0.10	U
319857	Beta-BHC	0.10	U
57749	Chlordane	0.20	U
319868	Delta-BHC	0.10	U
60571	Dieldrin	0.10	U
959988	Endosulfan I	0.10	U
33213659	Endosulfan II	0.10	U
1031078	Endosulfan Sulfate	0.10	U
72208	Endrin	0.10	U
7421934	Endrin Aldehyde	0.10	U
53494705	Endrin Ketone	0.10	U
58899	Gamma-BHC	0.10	U
76448	Heptachlor	0.10	U
1024573	Heptachlor Epoxide	0.10	U
72435	Methoxychlor	0.10	U
72548	P,P'-DDD	0.10	U
72559	P,P'-DDE	0.10	U
50293	P,P'-DDT	0.10	U
8001352	Toxaphene	1.0	U

**Total Target Concentration 0**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

**Form1**  
ORGANICS PESTICIDE REPORT

HC 0114

**Sample Number:** AB74150      **Matrix:** Soil  
**Client Id:** FRSS-04      **Initial Volume:** 30g  
**Data File:** GE0705      **Final Volume:** 10ml  
**Date Analyzed:** 9 Dec 2002 10:00      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/3/2002-12/04/02      **Percent Solids:** 90  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
309002	Aldrin	0.0037	U
319846	Alpha-BHC	0.0037	U
319857	Beta-BHC	0.0037	U
57749	Chlordane	0.0074	U
319868	Delta-BHC	0.0037	U
60571	Dieldrin	0.0037	U
959988	Endosulfan I	0.0037	U
33213659	Endosulfan II	0.0037	U
1031078	Endosulfan Sulfate	0.0037	U
72208	Endrin	0.0037	U
7421934	Endrin Aldehyde	0.0037	U
53494705	Endrin Ketone	0.0037	U
58899	Gamma-BHC	0.0037	U
76448	Heptachlor	0.0037	U
1024573	Heptachlor Epoxide	0.0037	U
72435	Methoxychlor	0.0037	U
72548	P,P'-DDD	0.0037	U
72559	P,P'-DDE	0.0037	U
50293	P,P'-DDT	0.0037	U
8001352	Toxaphene	0.037	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74133  
Client Id: FRSS-12  
Matrix: SOIL

% Solid: 94  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.1	ND	100	PEICP1	12/04/02	4369	S4369A	23
7440-39-3	Barium	11	180	100	PEICP1	12/04/02	4369	S4369A	23
7440-43-9	Cadmium	0.64	0.76	100	PEICP1	12/04/02	4369	S4369A	23
7440-47-3	Chromium	5.3	ND	100	PEICP1	12/04/02	4369	S4369A	23
7439-92-1	Lead	5.3	240	100	PEICP1	12/04/02	4369	S4369A	23
7439-97-6	Mercury	0.15	0.35	167	HGCV2	12/06/02	4369	H4369S	19
7782-49-2	Selenium	2.1	ND	100	PEICP1	12/04/02	4369	S4369A	23
7440-22-4	Silver	2.7	ND	100	PEICP1	12/04/02	4369	S4369A	23

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

neg  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74134  
 Client Id: FRSS-11  
 Matrix: SOIL

% Solid: 86  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.3	6.6	100	PEICP1	12/04/02	4369	S4369A	24
7440-39-3	Barium	12	110	100	PEICP1	12/04/02	4369	S4369A	24
7440-43-9	Cadmium	0.70	ND	100	PEICP1	12/04/02	4369	S4369A	24
7440-47-3	Chromium	5.8	9.3	100	PEICP1	12/04/02	4369	S4369A	24
7439-92-1	Lead	5.8	310	100	PEICP1	12/04/02	4369	S4369A	24
7439-97-6	Mercury	0.17	0.34	167	HGCV2	12/06/02	4369	H4369S	22
7782-49-2	Selenium	2.3	ND	100	PEICP1	12/04/02	4369	S4369A	24
7440-22-4	Silver	2.9	ND	100	PEICP1	12/04/02	4369	S4369A	24

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

mg  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74135  
 Client Id: FRSB-09  
 Matrix: SOIL

% Solid: 72  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.8	8.3	100	PEICP1	12/04/02	4369	S4369A	25
7440-39-3	Barium	14	320	100	PEICP1	12/04/02	4369	S4369A	25
7440-43-9	Cadmium	0.83	3.7	100	PEICP1	12/04/02	4369	S4369A	25
7440-47-3	Chromium	6.9	33	100	PEICP1	12/04/02	4369	S4369A	25
7439-92-1	Lead	6.9	620	100	PEICP1	12/04/02	4369	S4369A	25
7439-97-6	Mercury	0.99	13	835	HGCV2	12/06/02	4369	H4369S	40
7782-49-2	Selenium	2.8	ND	100	PEICP1	12/04/02	4369	S4369A	25
7440-22-4	Silver	3.5	ND	100	PEICP1	12/04/02	4369	S4369A	25

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*mg*  
*12/17/02*

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74136  
Client Id: FRSB-08A  
Matrix: SOIL

% Solid: 88  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.3	ND	100	PEICP1	12/04/02	4369	S4369A	26
7440-39-3	Barium	11	ND	100	PEICP1	12/04/02	4369	S4369A	26
7440-43-9	Cadmium	0.68	ND	100	PEICP1	12/04/02	4369	S4369A	26
7440-47-3	Chromium	5.7	ND	100	PEICP1	12/04/02	4369	S4369A	26
7439-92-1	Lead	5.7	ND	100	PEICP1	12/04/02	4369	S4369A	26
7439-97-6	Mercury	0.16	ND	167	HGCV2	12/06/02	4369	H4369S	24
7782-49-2	Selenium	2.3	ND	100	PEICP1	12/04/02	4369	S4369A	26
7440-22-4	Silver	2.8	ND	100	PEICP1	12/04/02	4369	S4369A	26

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

7/10  
12/12/02



# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74137  
 Client Id: FRSB-08B  
 Matrix: SOIL

% Solid: 83  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.4	6.3	100	PEICP1	12/04/02	4369	S4369A	27
7440-39-3	Barium	12	19	100	PEICP1	12/04/02	4369	S4369A	27
7440-43-9	Cadmium	0.72	ND	100	PEICP1	12/04/02	4369	S4369A	27
7440-47-3	Chromium	6.0	11	100	PEICP1	12/04/02	4369	S4369A	27
7439-92-1	Lead	6.0	ND	100	PEICP1	12/04/02	4369	S4369A	27
7439-97-6	Mercury	0.17	ND	167	HGCV2	12/06/02	4369	H4369S	25
7782-49-2	Selenium	2.4	ND	100	PEICP1	12/04/02	4369	S4369A	27
7440-22-4	Silver	3.0	ND	100	PEICP1	12/04/02	4369	S4369A	27

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

7/13  
12/17/02

# Form 1

## Inorganic Analysis Data Sheet

Sample ID: AB74138  
 Client Id: FB120202  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	2000	ND	1	ICPRAD	12/05/02	4369	S4369B	22
7440-36-0	Antimony	20	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-38-2	Arsenic	20	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-39-3	Barium	100	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-41-7	Beryllium	6.0	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-43-9	Cadmium	6.0	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-70-2	Calcium	10000	ND	1	ICPRAD	12/05/02	4369	S4369B	22
7440-47-3	Chromium	50	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-48-4	Cobalt	25	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-50-8	Copper	50	ND	1	PEICP1	12/05/02	4369	T4368A	61
7439-89-6	Iron	2000	ND	1	ICPRAD	12/05/02	4369	S4369B	22
7439-92-1	Lead	50	ND	1	PEICP1	12/04/02	4369	S4369A	30
7439-95-4	Magnesium	5000	ND	1	ICPRAD	12/05/02	4369	S4369B	22
7439-96-5	Manganese	100	ND	1	PEICP1	12/04/02	4369	S4369A	30
7439-97-6	Mercury	0.85	ND	1	HGCV2	12/06/02	4369	H4369S	26
7440-02-0	Nickel	50	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-09-7	Potassium	5000	ND	1	ICPRAD	12/05/02	4369	S4369B	22
7782-49-2	Selenium	20	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-22-4	Silver	25	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-23-5	Sodium	5000	ND	1	ICPRAD	12/05/02	4369	S4369B	22
7440-28-0	Thallium	12	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-62-2	Vanadium	100	ND	1	PEICP1	12/04/02	4369	S4369A	30
7440-66-6	Zinc	100	ND	1	PEICP1	12/04/02	4369	S4369A	30

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature*

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74139

% Solid: 92

Client Id: FRSS-13

Units: mg/Kg

Matrix: SOIL

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	2.4	100	PEICP1	12/04/02	4369	S4369A	31
7440-39-3	Barium	11	42	100	PEICP1	12/04/02	4369	S4369A	31
7440-43-9	Cadmium	0.65	ND	100	PEICP1	12/04/02	4369	S4369A	31
7440-47-3	Chromium	5.4	9.8	100	PEICP1	12/04/02	4369	S4369A	31
7439-92-1	Lead	5.4	37	100	PEICP1	12/04/02	4369	S4369A	31
7439-97-6	Mercury	0.15	ND	167	HGCV2	12/06/02	4369	H4369S	27
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/04/02	4369	S4369A	31
7440-22-4	Silver	2.7	ND	100	PEICP1	12/04/02	4369	S4369A	31

## Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

Handwritten signature and date: 12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74140  
 Client Id: FRSS-15  
 Matrix: SOIL

% Solid: 92  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	2.4	100	PEICP1	12/04/02	4369	S4369A	32
7440-39-3	Barium	11	48	100	PEICP1	12/04/02	4369	S4369A	32
7440-43-9	Cadmium	0.65	ND	100	PEICP1	12/04/02	4369	S4369A	32
7440-47-3	Chromium	5.4	9.4	100	PEICP1	12/04/02	4369	S4369A	32
7439-92-1	Lead	5.4	53	100	PEICP1	12/04/02	4369	S4369A	32
7439-97-6	Mercury	0.15	ND	167	HGCV2	12/06/02	4369	H4369S	28
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/04/02	4369	S4369A	32
7440-22-4	Silver	2.7	ND	100	PEICP1	12/04/02	4369	S4369A	32

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

12/17/02

**Form1**  
**Inorganic Analysis Data Sheet**

Sample ID: AB74141  
Client Id: FRSS-01  
Matrix: SOIL

% Solid: 89  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	3.4	100	PEICP1	12/10/02	4369	S4369E	13
7440-39-3	Barium	11	99	100	PEICP1	12/10/02	4369	S4369E	13
7440-43-9	Cadmium	0.67	ND	100	PEICP1	12/10/02	4369	S4369E	13
7440-47-3	Chromium	5.6	14	100	PEICP1	12/10/02	4369	S4369E	13
7439-92-1	Lead	5.6	160	100	PEICP1	12/10/02	4369	S4369E	13
7439-97-6	Mercury	0.16	0.60	167	HGCV2	12/06/02	4369	H4369S	13
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/10/02	4369	S4369E	13
7440-22-4	Silver	2.8	ND	100	PEICP1	12/10/02	4369	S4369E	13

**Flag Codes:**

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

AKB  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74142  
 Client Id: FRSS-01 MS  
 Matrix: SOIL

% Solid: 90  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	53	100	PEICP1	12/10/02	4369	S4369E	15
7440-39-3	Barium	11	99	100	PEICP1	12/10/02	4369	S4369E	15
7440-43-9	Cadmium	0.67	50	100	PEICP1	12/10/02	4369	S4369E	15
7440-47-3	Chromium	5.6	60	100	PEICP1	12/10/02	4369	S4369E	15
7439-92-1	Lead	5.6	150	100	PEICP1	12/10/02	4369	S4369E	15
7439-97-6	Mercury	0.16	2.4	167	HGCV2	12/06/02	4369	H4369S	15
7782-49-2	Selenium	2.2	48	100	PEICP1	12/10/02	4369	S4369E	15
7440-22-4	Silver	2.8	51	100	PEICP1	12/10/02	4369	S4369E	15

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*me*  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74143  
 Client Id: FRSB-03A  
 Matrix: SOIL

% Solid: 87  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.3	2.6	100	PEICP1	12/04/02	4369	S4369A	33
7440-39-3	Barium	11	13	100	PEICP1	12/04/02	4369	S4369A	33
7440-43-9	Cadmium	0.69	ND	100	PEICP1	12/04/02	4369	S4369A	33
7440-47-3	Chromium	5.7	16	100	PEICP1	12/04/02	4369	S4369A	33
7439-92-1	Lead	5.7	ND	100	PEICP1	12/04/02	4369	S4369A	33
7439-97-6	Mercury	0.16	ND	167	HGCV2	12/06/02	4369	H4369S	29
7782-49-2	Selenium	2.3	ND	100	PEICP1	12/04/02	4369	S4369A	33
7440-22-4	Silver	2.9	ND	100	PEICP1	12/04/02	4369	S4369A	33

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

Reg  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74144  
 Client Id: FRSB-03B  
 Matrix: SOIL

% Solid: 82  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.4	3.1	100	PEICP1	12/04/02	4369	S4369A	34
7440-39-3	Barium	12	ND	100	PEICP1	12/04/02	4369	S4369A	34
7440-43-9	Cadmium	0.73	ND	100	PEICP1	12/04/02	4369	S4369A	34
7440-47-3	Chromium	6.1	ND	100	PEICP1	12/04/02	4369	S4369A	34
7439-92-1	Lead	6.1	ND	100	PEICP1	12/04/02	4369	S4369A	34
7439-97-6	Mercury	0.17	ND	167	HGCV2	12/06/02	4369	H4369S	30
7782-49-2	Selenium	2.4	ND	100	PEICP1	12/04/02	4369	S4369A	34
7440-22-4	Silver	3.0	ND	100	PEICP1	12/04/02	4369	S4369A	34

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

248  
12/11/02



Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74145  
Client Id: FRSS-03  
Matrix: SOIL

% Solid: 90  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	3.3	100	PEICP1	12/04/02	4369	S4369A	35
7440-39-3	Barium	11	55	100	PEICP1	12/04/02	4369	S4369A	35
7440-43-9	Cadmium	0.67	ND	100	PEICP1	12/04/02	4369	S4369A	35
7440-47-3	Chromium	5.6	12	100	PEICP1	12/04/02	4369	S4369A	35
7439-92-1	Lead	5.6	94	100	PEICP1	12/04/02	4369	S4369A	35
7439-97-6	Mercury	0.16	ND	167	HGCV2	12/06/02	4369	H4369S	31
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/04/02	4369	S4369A	35
7440-22-4	Silver	2.8	ND	100	PEICP1	12/04/02	4369	S4369A	35

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

2/17/03  
12/17/02

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74146  
Client Id: FRSS-05  
Matrix: SOIL

% Solid: 97  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.1	ND	100	PEICP1	12/04/02	4369	S4369A	36
7440-39-3	Barium	10	ND	100	PEICP1	12/04/02	4369	S4369A	36
7440-43-9	Cadmium	0.62	ND	100	PEICP1	12/04/02	4369	S4369A	36
7440-47-3	Chromium	5.2	ND	100	PEICP1	12/04/02	4369	S4369A	36
7439-92-1	Lead	5.2	9.8	100	PEICP1	12/04/02	4369	S4369A	36
7439-97-6	Mercury	0.15	ND	167	HGCV2	12/06/02	4369	H4369S	34
7782-49-2	Selenium	2.1	ND	100	PEICP1	12/04/02	4369	S4369A	36
7440-22-4	Silver	2.6	ND	100	PEICP1	12/04/02	4369	S4369A	36

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

MS  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74147  
 Client Id: FRSS-07  
 Matrix: SOIL

% Solid: 97  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.1	ND	100	PEICP1	12/04/02	4369	S4369A	37
7440-39-3	Barium	10	21	100	PEICP1	12/04/02	4369	S4369A	37
7440-43-9	Cadmium	0.62	ND	100	PEICP1	12/04/02	4369	S4369A	37
7440-47-3	Chromium	5.2	8.4	100	PEICP1	12/04/02	4369	S4369A	37
7439-92-1	Lead	5.2	38	100	PEICP1	12/04/02	4369	S4369A	37
7439-97-6	Mercury	0.15	0.18	167	HGCV2	12/06/02	4369	H4369S	35
7782-49-2	Selenium	2.1	ND	100	PEICP1	12/04/02	4369	S4369A	37
7440-22-4	Silver	2.6	ND	100	PEICP1	12/04/02	4369	S4369A	37

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

7/18  
12/1/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74148  
 Client Id: FRSS-08  
 Matrix: SOIL

% Solid: 89  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	8.9	100	PEICP1	12/04/02	4369	S4369A	40
7440-39-3	Barium	11	200	100	PEICP1	12/04/02	4369	S4369A	40
7440-43-9	Cadmium	0.67	1.0	100	PEICP1	12/04/02	4369	S4369A	40
7440-47-3	Chromium	5.6	22	100	PEICP1	12/04/02	4369	S4369A	40
7439-92-1	Lead	5.6	550	100	PEICP1	12/04/02	4369	S4369A	40
7439-97-6	Mercury	0.16	0.80	167	HGCV2	12/06/02	4369	H4369S	36
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/04/02	4369	S4369A	40
7440-22-4	Silver	2.8	ND	100	PEICP1	12/04/02	4369	S4369A	40

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

228  
12/7/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74149  
 Client Id: FRSS-06  
 Matrix: SOIL

% Solid: 91  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	6.2	100	PEICP1	12/04/02	4369	S4369A	41
7440-39-3	Barium	11	490	100	PEICP1	12/04/02	4369	S4369A	41
7440-43-9	Cadmium	0.66	1.3	100	PEICP1	12/04/02	4369	S4369A	41
7440-47-3	Chromium	5.5	17	100	PEICP1	12/04/02	4369	S4369A	41
7439-92-1	Lead	5.5	750	100	PEICP1	12/04/02	4369	S4369A	41
7439-97-6	Mercury	0.16	0.70	167	HGCV2	12/06/02	4369	H4369S	37
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/04/02	4369	S4369A	41
7440-22-4	Silver	2.7	ND	100	PEICP1	12/04/02	4369	S4369A	41

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

MSB  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74150  
 Client Id: FRSS-04  
 Matrix: SOIL

% Solid: 90  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	220	3800	100	ICPRAD	12/05/02	4371	S4371b	13
7440-36-0	Antimony	2.2	ND	100	PEICP1	12/04/02	4371	S4371A	13
7440-38-2	Arsenic	2.2	5.5	100	PEICP1	12/04/02	4371	S4371A	13
7440-39-3	Barium	11	210	100	PEICP1	12/04/02	4371	S4371A	13
7440-41-7	Beryllium	0.67	ND	100	PEICP1	12/04/02	4371	S4371A	13
7440-43-9	Cadmium	0.67	1.2	100	PEICP1	12/04/02	4371	S4371A	13
7440-70-2	Calcium	1100	21000	100	ICPRAD	12/05/02	4371	S4371b	13
7440-47-3	Chromium	5.6	15	100	PEICP1	12/04/02	4371	S4371A	13
7440-48-4	Cobalt	2.8	3.0	100	PEICP1	12/04/02	4371	S4371A	13
7440-50-8	Copper	5.6	520	100	PEICP1	12/04/02	4371	S4371A	13
7439-89-6	Iron	220	13000	100	ICPRAD	12/05/02	4371	S4371b	13
7439-92-1	Lead	5.6	690	100	PEICP1	12/04/02	4371	S4371A	13
7439-95-4	Magnesium	560	9400	100	ICPRAD	12/05/02	4371	S4371b	13
7439-96-5	Manganese	11	140	100	PEICP1	12/04/02	4371	S4371A	13
7439-97-6	Mercury	0.16	0.50	167	HGCV1	12/05/02	4371	H4371S	13
7440-02-0	Nickel	5.6	9.4	100	PEICP1	12/04/02	4371	S4371A	13
7440-09-7	Potassium	560	ND	100	ICPRAD	12/05/02	4371	S4371b	13
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/04/02	4371	S4371A	13
7440-22-4	Silver	2.8	ND	100	PEICP1	12/04/02	4371	S4371A	13
7440-23-5	Sodium	560	ND	100	ICPRAD	12/05/02	4371	S4371b	13
7440-28-0	Thallium	1.3	ND	100	PEICP1	12/04/02	4371	S4371A	13
7440-62-2	Vanadium	11	20	100	PEICP1	12/04/02	4371	S4371A	13
7440-66-6	Zinc	11	280	100	PEICP1	12/04/02	4371	S4371A	13

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

2/28/02

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74151  
Client Id: FRSS-02  
Matrix: SOIL

% Solid: 90  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	4.9	100	PEICP1	12/04/02	4371	S4371A	20
7440-39-3	Barium	11	320	100	PEICP1	12/04/02	4371	S4371A	20
7440-43-9	Cadmium	0.67	1.2	100	PEICP1	12/04/02	4371	S4371A	20
7440-47-3	Chromium	5.6	15	100	PEICP1	12/04/02	4371	S4371A	20
7439-92-1	Lead	5.6	690	100	PEICP1	12/04/02	4371	S4371A	20
7439-97-6	Mercury	0.16	0.50	167	HGCV1	12/05/02	4371	H4371S	17
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/04/02	4371	S4371A	20
7440-22-4	Silver	2.8	ND	100	PEICP1	12/04/02	4371	S4371A	20

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

MLD  
12/16/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74152  
 Client Id: FRSS-14  
 Matrix: SOIL

% Solid: 86  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.3	5.8	100	PEICP1	12/04/02	4371	S4371A	22
7440-39-3	Barium	12	140	100	PEICP1	12/04/02	4371	S4371A	22
7440-43-9	Cadmium	0.70	1.5	100	PEICP1	12/04/02	4371	S4371A	22
7440-47-3	Chromium	5.8	17	100	PEICP1	12/04/02	4371	S4371A	22
7439-92-1	Lead	5.8	530	100	PEICP1	12/04/02	4371	S4371A	22
7439-97-6	Mercury	0.17	0.96	167	HGCV1	12/05/02	4371	H4371S	18
7782-49-2	Selenium	2.3	ND	100	PEICP1	12/04/02	4371	S4371A	22
7440-22-4	Silver	2.9	ND	100	PEICP1	12/04/02	4371	S4371A	22

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

749  
12/02



# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74153  
 Client Id: FRSS-01 MSD  
 Matrix: SOIL

% Solid: 91  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	56	100	PEICP1	12/10/02	4369	S4369E	16
7440-39-3	Barium	11	130	100	PEICP1	12/10/02	4369	S4369E	16
7440-43-9	Cadmium	0.66	50	100	PEICP1	12/10/02	4369	S4369E	16
7440-47-3	Chromium	5.5	65	100	PEICP1	12/10/02	4369	S4369E	16
7439-92-1	Lead	5.5	200	100	PEICP1	12/10/02	4369	S4369E	16
7439-97-6	Mercury	0.16	2.7	167	HGCV2	12/06/02	4369	H4369S	16
7782-49-2	Selenium	2.2	48	100	PEICP1	12/10/02	4369	S4369E	16
7440-22-4	Silver	2.7	50	100	PEICP1	12/10/02	4369	S4369E	16

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

MSD  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74154  
 Client Id: FRSB-02A  
 Matrix: SOIL

% Solid: 88  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.3	ND	100	PEICP1	12/04/02	4371	S4371A	23
7440-39-3	Barium	11	34	100	PEICP1	12/04/02	4371	S4371A	23
7440-43-9	Cadmium	0.68	ND	100	PEICP1	12/04/02	4371	S4371A	23
7440-47-3	Chromium	5.7	13	100	PEICP1	12/04/02	4371	S4371A	23
7439-92-1	Lead	5.7	30	100	PEICP1	12/04/02	4371	S4371A	23
7439-97-6	Mercury	0.16	ND	167	HGCV1	12/05/02	4371	H4371S	19
7782-49-2	Selenium	2.3	ND	100	PEICP1	12/04/02	4371	S4371A	23
7440-22-4	Silver	2.8	ND	100	PEICP1	12/04/02	4371	S4371A	23

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature*  
 12/6/02

**Form1**  
**Inorganic Analysis Data Sheet**

Sample ID: AB74155  
Client Id: FRSB-02B  
Matrix: SOIL

% Solid: 80  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.5	ND	100	PEICP1	12/04/02	4371	S4371A	24
7440-39-3	Barium	12	ND	100	PEICP1	12/04/02	4371	S4371A	24
7440-43-9	Cadmium	0.75	ND	100	PEICP1	12/04/02	4371	S4371A	24
7440-47-3	Chromium	6.2	ND	100	PEICP1	12/04/02	4371	S4371A	24
7439-92-1	Lead	6.2	ND	100	PEICP1	12/04/02	4371	S4371A	24
7439-97-6	Mercury	0.18	ND	167	HGCV1	12/05/02	4371	H4371S	22
7782-49-2	Selenium	2.5	ND	100	PEICP1	12/04/02	4371	S4371A	24
7440-22-4	Silver	3.1	ND	100	PEICP1	12/04/02	4371	S4371A	24

**Flag Codes:**

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

HLG  
12/6/02

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74156  
Client Id: FRSB-10A  
Matrix: SOIL

% Solid: 83  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.4	ND	100	PEICP1	12/04/02	4371	S4371A	25
7440-39-3	Barium	12	12	100	PEICP1	12/04/02	4371	S4371A	25
7440-43-9	Cadmium	0.72	ND	100	PEICP1	12/04/02	4371	S4371A	25
7440-47-3	Chromium	6.0	ND	100	PEICP1	12/04/02	4371	S4371A	25
7439-92-1	Lead	6.0	ND	100	PEICP1	12/04/02	4371	S4371A	25
7439-97-6	Mercury	0.17	ND	167	HGCV1	12/05/02	4371	H4371S	23
7782-49-2	Selenium	2.4	ND	100	PEICP1	12/04/02	4371	S4371A	25
7440-22-4	Silver	3.0	ND	100	PEICP1	12/04/02	4371	S4371A	25

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature*  
12/6/02

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74157  
Client Id: FRSB-10B  
Matrix: SOIL

% Solid: 80  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.5	ND	100	PEICP1	12/04/02	4371	S4371A	26
7440-39-3	Barium	12	ND	100	PEICP1	12/04/02	4371	S4371A	26
7440-43-9	Cadmium	0.75	ND	100	PEICP1	12/04/02	4371	S4371A	26
7440-47-3	Chromium	6.2	ND	100	PEICP1	12/04/02	4371	S4371A	26
7439-92-1	Lead	6.2	ND	100	PEICP1	12/04/02	4371	S4371A	26
7439-97-6	Mercury	0.18	ND	167	HGCV1	12/05/02	4371	H4371S	24
7782-49-2	Selenium	2.5	ND	100	PEICP1	12/04/02	4371	S4371A	26
7440-22-4	Silver	3.1	ND	100	PEICP1	12/04/02	4371	S4371A	26

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*MS*  
12/6/02

## Veritech Wet Chem Form 1 Summary

Lab #: AB74133

Lab #: AB74133

Sample Matrix: Soil

Sample ID: FRSS-12

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	94	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/13/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.26	1	12/13/02	

Lab #: AB74134

Sample Matrix: Soil

Sample ID: FRSS-11

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	86	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/13/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	0.41	mg/kg	0.29	1	12/13/02	

Lab #: AB74135

Sample Matrix: Soil

Sample ID: FRSB-09

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	72	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/13/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	0.93	mg/kg	0.35	1	12/13/02	

Lab #: AB74136

Sample Matrix: Soil

Sample ID: FRSB-08A

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	88	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/13/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.28	1	12/13/02	

Lab #: AB74137

Sample Matrix: Soil

Sample ID: FRSB-08B

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	83	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/13/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.3	1	12/13/02	

## Veritech Wet Chem Form 1 Summary

Lab #: AB74138

Lab #: AB74138

Sample Matrix: Aqueous

Sample ID: FB120202

Date Received: 12/3/02

Test Group Name:	Cyanide (Water) 9010	Date Prepared:	12/16/02
Analyte	Concentration	Units	MDL/PQL
Cyanide	ND	mg/l	0.01
		DF	1
		Date Analyzed	12/16/02

Lab #: AB74139

Sample Matrix: Soil

Sample ID: FRSS-13

Date Received: 12/3/02

Test Group Name:	% Solids SM2540G	Date Prepared:	
Analyte	Concentration	Units	MDL/PQL
% Solids	92	Percen	
		DF	1
		Date Analyzed	12/4/02

Test Group Name:	Cyanide (Soil/Waste)	Date Prepared:	12/13/02
Analyte	Concentration	Units	MDL/PQL
Cyanide	ND	mg/kg	0.27
		DF	1
		Date Analyzed	12/13/02

Lab #: AB74140

Sample Matrix: Soil

Sample ID: FRSS-15

Date Received: 12/3/02

Test Group Name:	% Solids SM2540G	Date Prepared:	
Analyte	Concentration	Units	MDL/PQL
% Solids	92	Percen	
		DF	1
		Date Analyzed	12/4/02

Test Group Name:	Cyanide (Soil/Waste)	Date Prepared:	12/16/02
Analyte	Concentration	Units	MDL/PQL
Cyanide	ND	mg/kg	0.27
		DF	1
		Date Analyzed	12/16/02

Lab #: AB74141

Sample Matrix: Soil

Sample ID: FRSS-01

Date Received: 12/3/02

Test Group Name:	% Solids SM2540G	Date Prepared:	
Analyte	Concentration	Units	MDL/PQL
% Solids	89	Percen	
		DF	1
		Date Analyzed	12/4/02

Test Group Name:	Cyanide (Soil/Waste)	Date Prepared:	12/13/02
Analyte	Concentration	Units	MDL/PQL
Cyanide	ND	mg/kg	0.28
		DF	1
		Date Analyzed	12/13/02

Lab #: AB74142

Sample Matrix: Soil

Sample ID: FRSS-01 MS

Date Received: 12/3/02

Test Group Name:	% Solids SM2540G	Date Prepared:	
Analyte	Concentration	Units	MDL/PQL
% Solids	90	Percen	
		DF	1
		Date Analyzed	12/4/02

Test Group Name:	Cyanide (Soil/Waste)	Date Prepared:	12/13/02
Analyte	Concentration	Units	MDL/PQL
Cyanide	5.7	mg/kg	0.28
		DF	1
		Date Analyzed	12/13/02

## Veritech Wet Chem Form 1 Summary

Lab #: AB74143

Lab #: AB74143

Sample Matrix: Soil

Sample ID: FRSB-03A

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	87	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.29	1	12/16/02

Lab #: AB74144

Sample Matrix: Soil

Sample ID: FRSB-03B

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	82	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.3	1	12/16/02

Lab #: AB74145

Sample Matrix: Soil

Sample ID: FRSS-03

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	90	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	0.46	mg/kg	0.28	1	12/16/02

Lab #: AB74146

Sample Matrix: Soil

Sample ID: FRSS-05

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	97	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	0.27	mg/kg	0.26	1	12/16/02

Lab #: AB74147

Sample Matrix: Soil

Sample ID: FRSS-07

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	97	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	0.27	mg/kg	0.26	1	12/16/02



## Veritech Wet Chem Form 1 Summary

Lab #: AB74148

Lab #: AB74148

Sample Matrix: Soil

Sample ID: FRSS-08

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	89	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/16/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.28	1	12/16/02	

Lab #: AB74149

Sample Matrix: Soil

Sample ID: FRSS-06

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	91	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/16/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.27	1	12/16/02	

Lab #: AB74150

Sample Matrix: Soil

Sample ID: FRSS-04

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	90	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/16/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.28	1	12/16/02	

Lab #: AB74151

Sample Matrix: Soil

Sample ID: FRSS-02

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	90	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/16/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	0.29	mg/kg	0.28	1	12/16/02	

Lab #: AB74152

Sample Matrix: Soil

Sample ID: FRSS-14

Date Received: 12/3/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	86	Percen		1	12/4/02	
Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/16/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.29	1	12/16/02	

## Veritech Wet Chem Form 1 Summary

Lab #: AB74153

Lab #: AB74153

Sample Matrix: Soil

Sample ID: FRSS-01 MSD

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	91	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/13/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	5.3	mg/kg	0.27	1	12/13/02

Lab #: AB74154

Sample Matrix: Soil

Sample ID: FRSB-02A

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	88	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.28	1	12/16/02

Lab #: AB74155

Sample Matrix: Soil

Sample ID: FRSB-02B

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	80	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.31	1	12/16/02

Lab #: AB74156

Sample Matrix: Soil

Sample ID: FRSB-10A

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	83	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.3	1	12/16/02

Lab #: AB74157

Sample Matrix: Soil

Sample ID: FRSB-10B

Date Received: 12/3/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	80	Percen		1	12/4/02
Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/16/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.31	1	12/16/02

**Hampton-Clarke, Inc.**  
**veritech laboratories**

175 Route 46 West, Unit D  
Fairfield, NJ 07004  
(973) 244-9770  
Federal ID: 222679402

HC  
0001

**Paulus, Sokolowski & Sartor, Inc.**

**Format: NYDOH-CatB**  
**Project: Far Rockaway Former**  
**PO Number: 2522-006-084**

Samples submitted on: 12/6/02

AB74441  
AB74442  
AB74443  
AB74444  
AB74445  
AB74446  
AB74447  
AB74448  
AB74449  
AB74450  
AB74451  
AB74452

**Date: 1/3/03**  
**HCI Project: 12071505**

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.



Robin Cousineau - Quality Assurance Director

Or

Stanley Gilewicz - Laboratory Director

**CT #: PH-0671   MA #: NJ386   NJ #: 14622   NY #: 11408   PA #: 68-463**

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## SDG Narrative

## SDG Narrative

HC  
0003

Project: PSS

Job: Far Rockaway Former MGP

Hampton-Clarke, Inc. (HCI) received the following PSS samples on December 6, 2002:

<u>PSS #</u>	<u>HCI #</u>	<u>Type</u>	<u>Analysis</u>
FRSB-04A	AB74441	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide
FRSB-04B	AB74442	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide
FRTT-01	AB74443	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide
FRTT-02	AB74444	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide
FRTT-03	AB74445	Soil	Full TAL / TCL
FRSB-01A	AB74446	Soil	Vo8260+15, BN8270+15, Metals-RCRA 6010, Cyanide 9010
FRSB-01B	AB74447	Soil	Full TAL / TCL
FRSB-09A	AB74448	Soil	Full TAL / TCL
FRSB-09B	AB74449	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide, PCB*, Pest*
FRSB-09B MS	AB74450	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide, PCB*, Pest*
FRSB-09B MSD	AB74451	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide, PCB*, Pest*
STB120402	AB74452	Soil	Vo8260+15

\* activated 12-13-02

Problems associated with these analyses are as follows:

### Volatiles:

The following samples were run at a dilution: AB74441 (125x), AB74446 (125x), and AB74447 (125x). There was methylene chloride contamination in blanks FA8164a and FA8193 and in samples AB74442-AB74445, and AB74448-AB74451 as a result of laboratory contamination. Sample AB74447 had surrogates outside QC recovery in both runs. The following compounds fell outside QC criteria in the matrix spike duplicate and the RPD: 1,1-Dichloroethene (MSD 36%, RPD 76%), Benzene (MSD 45%, RPD 60%), Chlorobenzene (MSD 34%, RPD 67%), Toluene (MSD 37%, RPD 64%), and Trichloroethene (MSD 37%, RPD 66%).

There were no other problems associated with this analysis.

### Semi-Volatiles:

The following samples were run at a dilution: AB74445 (10x), and AB74447 (10x). 2-4 Dinitrotoluene fell outside QC criteria in the MBS (90%) and matrix spike (90%) in batch SMB1862 and in the matrix spike (91%) in batch SMB1861. Phthalates were recovered in method blank SMB 1862 and in samples AB74447 through AB74451 as a result of possible laboratory contamination. The surrogates in MBS SMB1862 were inadvertently double spiked.

There were no other problems with this analysis.

### PCBs:

There were no problems associated with this analysis.

### Pesticides:

There were no problems associated with this analysis.

Metals:

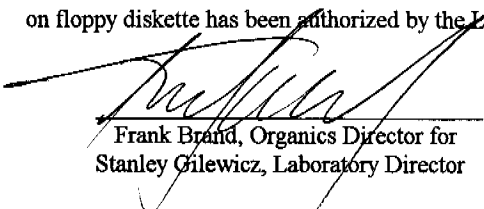
The following analytes fell outside QC criteria in the matrix spike and/or the matrix spike duplicate: Aluminum (MS 355%, MSD 861%), Antimony (MSD 67%), Manganese (MS 219%, MSD 341%), Vanadium (MSD 134%), Iron (MS 801%, MSD 1720%), and Zinc (MSD 127%). The concentration of Iron was above four times the spiking level. All analytes passed QC criteria in the MBS. Aluminum (93%) and Iron (25%) fell outside QC criteria in the RPD. Cobalt and Lead did not meet serial dilution criteria.

There were no other problems associated with this analysis.

Wet Chemistry:

There were no problems associated with this analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



Frank Brand, Organics Director for  
Stanley Gilewicz, Laboratory Director

\_\_\_\_\_  
Date

## Data Package Summary Forms



**Form1**  
ORGANICS VOLATILE REPORT

HC  
0006

**Sample Number:** AB74441 **Matrix:** Soil  
**Client Id:** FRSB-04A **Initial Volume:** 5ml  
**Date File:** FD5197 **Final Volume:** NA  
**Date Analyzed:** 11 Dec 2002 20:40 **Dilution Factor:** 125  
**Date Received/Extracted:** 12/6/2002-NA **Percent Solids:** 88  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.71	U
79345	1,1,2,2-Tetrachloroethane	0.71	U
79005	1,1,2-Trichloroethane	0.71	U
75343	1,1-Dichloroethane	0.71	U
75354	1,1-Dichloroethene	0.71	U
107062	1,2-Dichloroethane	0.71	U
78875	1,2-Dichloropropane	0.71	U
78933	2-Butanone	3.6	U
110758	2-Chloroethylvinylether	0.71	U
591786	2-Hexanone	2.8	U
108101	4-Methyl-2-Pentanone	2.8	U
67641	Acetone	2.8	U
107028	Acrolein	2.1	U
107131	Acrylonitrile	0.98	U
71432	Benzene	0.14	U
75274	Bromodichloromethane	0.71	U
75252	Bromoform	0.71	U
74839	Bromomethane	0.71	U
75150	Carbon disulfide	0.71	U
56235	Carbon tetrachloride	0.71	U
108907	Chlorobenzene	0.71	U
75003	Chloroethane	0.71	U
67663	Chloroform	0.71	U
74873	Chloromethane	0.71	U
156592	Cis-1,2-Dichloroethene	0.71	U
10061015	Cis-1,3-Dichloropropene	0.71	U
124481	Dibromochloromethane	0.71	U
100414	Ethylbenzene	0.14	32
108383	M&p-Xylenes	0.28	12
75092	Methylene chloride	0.71	U
95476	O-Xylene	0.14	11
100425	Styrene	0.14	U
127184	Tetrachloroethene	0.71	U
108883	Toluene	0.14	2.9
156605	Trans-1,2-Dichloroethene	0.71	U
10061026	Trans-1,3-Dichloropropene	0.71	U
79016	Trichloroethene	0.71	U
75014	Vinyl chloride	0.71	U

**Total Target Concentration 58**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\101628.txt

**Formle/1f**  
**ORGANICS VOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0007

<b>Sample Number:</b> AB74441	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-04A	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FD5197	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 11 Dec 2002 20:40	<b>Dilution Factor:</b> 125
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 88

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1	17302-23-7	Nonane, 4,5-dimethyl-	9.860	6.9 J
2	14676-29-0	Heptane, 3-ethyl-2-methyl-	10.776	12 J
3	98-82-8	Benzene, (1-methylethyl)-	10.865	8.1 J
4	3074-77-9	Hexane, 3-ethyl-4-methyl-	10.934	13 J
5	526-73-8	Benzene, 1,2,3-trimethyl-	11.299	18 J
6	620-14-4	Benzene, 1-ethyl-3-methyl-	11.476	9.7 J
7	526-73-8	Benzene, 1,2,3-trimethyl-	11.604	10 J
8	1678-98-4	Cyclohexane, (2-methylpropyl)-	11.782	12 J
9	61141-97-7	Benzene, 1,1'-(1-ethenyl-1,3-propanediyl)bis	12.087	38 J
10	112-54-9	Dodecanal	12.176	6.2 J
11	95-13-6	1H-Indene	12.255	6.9 J
12	2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	12.521	6.1 J
13	4431-89-4	Cyclohexane, (cyclopentylmethyl)-	12.649	6.5 J
14	275-51-4	Azulene	13.546	34 J
15	91-57-6	Naphthalene, 2-methyl-	14.393	6.7 J

**Total Tentatively Identified Concentration**      **190**

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\101628.txt

**Form I**  
**ORGANICS VOLATILE REPORT**

HC 0008

**Sample Number:** AB74442      **Matrix:** Soil  
**Client Id:** FRSB-04B      **Initial Volume:** 5g  
**Data File:** FA8175      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 21:13      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 81  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethene	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
78933	2-Butanone	0.031	U
110758	2-Chloroethylvinylether	0.0062	U
591786	2-Hexanone	0.025	U
108101	4-Methyl-2-Pentanone	0.025	U
67641	Acetone	0.025	0.030
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0086	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
75150	Carbon disulfide	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
156592	Cis-1,2-Dichloroethene	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	0.0026
108383	M&p-Xylenes	0.0025	0.0022 J
75092	Methylene chloride	0.0062	0.012 B
95476	O-Xylene	0.0012	0.0017
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	0.0023
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

**Total Target Concentration 0.051**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\30748.txt

**Form 1e/1f**  
**ORGANICS VOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0009

<b>Sample Number:</b> AB74442	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-04B	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8175	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 21:13	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 81

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1	91-20-3	Naphthalene	13.740	0.011 J

**Total Tentatively Identified Concentration**      0.011

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\30748.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0010

**Sample Number:** AB74443      **Matrix:** Soil  
**Client Id:** FRTT-01      **Initial Volume:** 5g  
**Data File:** FA8176      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 21:39      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 87  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0057	U
79345	1,1,2,2-Tetrachloroethane	0.0057	U
79005	1,1,2-Trichloroethane	0.0057	U
75343	1,1-Dichloroethane	0.0057	U
75354	1,1-Dichloroethene	0.0057	U
107062	1,2-Dichloroethane	0.0057	U
78875	1,2-Dichloropropane	0.0057	U
78933	2-Butanone	0.029	U
110758	2-Chloroethylvinylether	0.0057	U
591786	2-Hexanone	0.023	U
108101	4-Methyl-2-Pentanone	0.023	U
67641	Acetone	0.023	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0080	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0057	U
75252	Bromoform	0.0057	U
74839	Bromomethane	0.0057	U
75150	Carbon disulfide	0.0057	U
56235	Carbon tetrachloride	0.0057	U
108907	Chlorobenzene	0.0057	U
75003	Chloroethane	0.0057	U
67663	Chloroform	0.0057	U
74873	Chloromethane	0.0057	U
156592	Cis-1,2-Dichloroethene	0.0057	U
10061015	Cis-1,3-Dichloropropene	0.0057	U
124481	Dibromochloromethane	0.0057	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0023	U
75092	Methylene chloride	0.0057	0.0073 B
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0057	U
108883	Toluene	0.0011	U
156605	Trans-1,2-Dichloroethene	0.0057	U
10061026	Trans-1,3-Dichloropropene	0.0057	U
79016	Trichloroethene	0.0057	U
75014	Vinyl chloride	0.0057	U

**Total Target Concentration 0.0073**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form 1e/1f**  
**ORGANICS VOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0011

<b>Sample Number:</b> AB74443	<b>Matrix:</b> Soil
<b>Client Id:</b> FRTT-01	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8176	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 21:39	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 87

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\30748.txt

**Form I**  
**ORGANICS VOLATILE REPORT**

HC 0012

**Sample Number:** AB74444      **Matrix:** Soil  
**Client Id:** FRTT-02      **Initial Volume:** 5g  
**Data File:** FA8177      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 22:05      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 83  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0060	U
79345	1,1,2,2-Tetrachloroethane	0.0060	U
79005	1,1,2-Trichloroethane	0.0060	U
75343	1,1-Dichloroethane	0.0060	U
75354	1,1-Dichloroethene	0.0060	U
107062	1,2-Dichloroethane	0.0060	U
78875	1,2-Dichloropropane	0.0060	U
78933	2-Butanone	0.030	U
110758	2-Chloroethylvinylether	0.0060	U
591786	2-Hexanone	0.024	U
108101	4-Methyl-2-Pentanone	0.024	U
67641	Acetone	0.024	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0083	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0060	U
75252	Bromoform	0.0060	U
74839	Bromomethane	0.0060	U
75150	Carbon disulfide	0.0060	U
56235	Carbon tetrachloride	0.0060	U
108907	Chlorobenzene	0.0060	U
75003	Chloroethane	0.0060	U
67663	Chloroform	0.0060	U
74873	Chloromethane	0.0060	U
156592	Cis-1,2-Dichloroethene	0.0060	U
10061015	Cis-1,3-Dichloropropene	0.0060	U
124481	Dibromochloromethane	0.0060	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0060	0.0071 B
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0060	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0060	U
10061026	Trans-1,3-Dichloropropene	0.0060	U
79016	Trichloroethene	0.0060	U
75014	Vinyl chloride	0.0060	U

**Total Target Concentration 0.0071**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form 1e/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0013

<b>Sample Number:</b> AB74444	<b>Matrix:</b> Soil
<b>Client Id:</b> FRTT-02	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8177	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 22:05	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 83

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\30748.txt



*Form I*  
ORGANICS VOLATILE REPORT

Sample Number: AB74445

Matrix: Soil

Client Id: FRTT-03

Initial Volume: 5g

Data File: FA8178

Final Volume: NA

Date Analyzed: 10 Dec 2002 22:30

Dilution Factor: 1

Date Received/Extracted: 12/6/2002-NA

Percent Solids: 63

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0014

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0079	U
79345	1,1,2,2-Tetrachloroethane	0.0079	U
79005	1,1,2-Trichloroethane	0.0079	U
75343	1,1-Dichloroethane	0.0079	U
75354	1,1-Dichloroethene	0.0079	U
107062	1,2-Dichloroethane	0.0079	U
78875	1,2-Dichloropropane	0.0079	U
78933	2-Butanone	0.040	U
110758	2-Chloroethylvinylether	0.0079	U
591786	2-Hexanone	0.032	U
108101	4-Methyl-2-Pentanone	0.032	U
67641	Acetone	0.032	U
107028	Acrolein	0.024	U
107131	Acrylonitrile	0.011	U
71432	Benzene	0.0016	U
75274	Bromodichloromethane	0.0079	U
75252	Bromoform	0.0079	U
74839	Bromomethane	0.0079	U
75150	Carbon disulfide	0.0079	U
56235	Carbon tetrachloride	0.0079	U
108907	Chlorobenzene	0.0079	U
75003	Chloroethane	0.0079	U
67663	Chloroform	0.0079	U
74873	Chloromethane	0.0079	U
156592	Cis-1,2-Dichloroethene	0.0079	U
10061015	Cis-1,3-Dichloropropene	0.0079	U
124481	Dibromochloromethane	0.0079	U
100414	Ethylbenzene	0.0016	U
108383	M&p-Xylenes	0.0032	U
75092	Methylene chloride	0.0079	0.0074 JB
95476	O-Xylene	0.0016	U
100425	Styrene	0.0016	U
127184	Tetrachloroethene	0.0079	U
108883	Toluene	0.0016	0.0030
156605	Trans-1,2-Dichloroethene	0.0079	U
10061026	Trans-1,3-Dichloropropene	0.0079	U
79016	Trichloroethene	0.0079	U
75014	Vinyl chloride	0.0079	U

Total Target Concentration 0.01

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\32905.txt

**Form 1e/1f**  
**ORGANICS VOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0015

<b>Sample Number:</b> AB74445	<b>Matrix:</b> Soil
<b>Client Id:</b> FRTT-03	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8178	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 22:30	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 63

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\32905.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0016

**Sample Number:** AB74446 **Matrix:** Soil  
**Client Id:** FRSB-01A **Initial Volume:** 5ml  
**Data File:** FD5235 **Final Volume:** NA  
**Date Analyzed:** 12 Dec 2002 20:19 **Dilution Factor:** 125  
**Date Received/Extracted:** 12/6/2002-NA **Percent Solids:** 92  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.68	U
79345	1,1,2,2-Tetrachloroethane	0.68	U
79005	1,1,2-Trichloroethane	0.68	U
75343	1,1-Dichloroethane	0.68	U
75354	1,1-Dichloroethene	0.68	U
107062	1,2-Dichloroethane	0.68	U
78875	1,2-Dichloropropane	0.68	U
78933	2-Butanone	3.4	U
110758	2-Chloroethylvinylether	0.68	U
591786	2-Hexanone	2.7	U
108101	4-Methyl-2-Pentanone	2.7	U
67641	Acetone	2.7	U
107028	Acrolein	2.0	U
107131	Acrylonitrile	0.94	U
71432	Benzene	0.14	U
75274	Bromodichloromethane	0.68	U
75252	Bromoform	0.68	U
74839	Bromomethane	0.68	U
75150	Carbon disulfide	0.68	U
56235	Carbon tetrachloride	0.68	U
108907	Chlorobenzene	0.68	U
75003	Chloroethane	0.68	U
67663	Chloroform	0.68	U
74873	Chloromethane	0.68	U
156592	Cis-1,2-Dichloroethene	0.68	U
10061015	Cis-1,3-Dichloropropene	0.68	U
124481	Dibromochloromethane	0.68	U
100414	Ethylbenzene	0.14	0.25
108383	M&p-Xylenes	0.27	0.37
75092	Methylene chloride	0.68	U
95476	O-Xylene	0.14	U
100425	Styrene	0.14	U
127184	Tetrachloroethene	0.68	U
108883	Toluene	0.14	0.16
156605	Trans-1,2-Dichloroethene	0.68	U
10061026	Trans-1,3-Dichloropropene	0.68	U
79016	Trichloroethene	0.68	U
75014	Vinyl chloride	0.68	U

**Total Target Concentration 0.78**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\101628.txt

**Formle/If**  
**ORGANICS VOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0017

<b>Sample Number:</b> AB74446	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-01A	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FD5235	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 12 Dec 2002 20:19	<b>Dilution Factor:</b> 125
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 92

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1	526-73-8	Benzene, 1,2,3-trimethyl-	11.279	15 <i>J</i>
2	-00-0	3,7,7-TRIMETHYL-CYCLOHEPTA-1,3,5-TRI	12.481	18 <i>J</i>
3	824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	13.043	33 <i>J</i>
4	119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	13.181	15 <i>J</i>
5	4218-48-8	Benzene, 1-ethyl-4-(1-methylethyl)-	13.270	33 <i>J</i>
6	17851-27-3	Benzene, 1-ethyl-2,4,5-trimethyl-	13.368	23 <i>J</i>
7	3877-19-8	Naphthalene, 1,2,3,4-tetrahydro-2-methyl-	13.585	28 <i>J</i>
8	1559-81-5	Naphthalene, 1,2,3,4-tetrahydro-1-methyl-	13.654	23 <i>J</i>
9	2809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	13.762	16 <i>J</i>
10	2809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	13.930	47 <i>J</i>
11	1685-82-1	1H-Indene, 2,3-dihydro-4,6-dimethyl-	14.058	20 <i>J</i>
12	1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	14.186	24 <i>J</i>
13	13065-07-1	Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethy	14.314	30 <i>J</i>
14	91-57-6	Naphthalene, 2-methyl-	14.374	37 <i>J</i>
15	63927-06-0	VINYLINDENE	14.531	33 <i>J</i>

**Total Tentatively Identified Concentration      400**

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\101628.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0018

**Sample Number:** AB74447      **Matrix:** Soil  
**Client Id:** FRSB-01B      **Initial Volume:** 5ml  
**Data File:** FD5236      **Final Volume:** NA  
**Date Analyzed:** 12 Dec 2002 20:44      **Dilution Factor:** 125  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 85  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.74	U
79345	1,1,2,2-Tetrachloroethane	0.74	U
79005	1,1,2-Trichloroethane	0.74	U
75343	1,1-Dichloroethane	0.74	U
75354	1,1-Dichloroethene	0.74	U
107062	1,2-Dichloroethane	0.74	U
78875	1,2-Dichloropropane	0.74	U
78933	2-Butanone	3.7	U
110758	2-Chloroethylvinylether	0.74	U
591786	2-Hexanone	2.9	U
108101	4-Methyl-2-Pentanone	2.9	U
67641	Acetone	2.9	U
107028	Acrolein	2.2	U
107131	Acrylonitrile	1.0	U
71432	Benzene	0.15	U
75274	Bromodichloromethane	0.74	U
75252	Bromoform	0.74	U
74839	Bromomethane	0.74	U
75150	Carbon disulfide	0.74	U
56235	Carbon tetrachloride	0.74	U
108907	Chlorobenzene	0.74	U
75003	Chloroethane	0.74	U
67663	Chloroform	0.74	U
74873	Chloromethane	0.74	U
156592	Cis-1,2-Dichloroethene	0.74	U
10061015	Cis-1,3-Dichloropropene	0.74	U
124481	Dibromochloromethane	0.74	U
100414	Ethylbenzene	0.15	U
108383	M&p-Xylenes	0.29	U
75092	Methylene chloride	0.74	U
95476	O-Xylene	0.15	U
100425	Styrene	0.15	U
127184	Tetrachloroethene	0.74	U
108883	Toluene	0.15	U
156605	Trans-1,2-Dichloroethene	0.74	U
10061026	Trans-1,3-Dichloropropene	0.74	U
79016	Trichloroethene	0.74	U
75014	Vinyl chloride	0.74	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\41133.txt

**Form 1e/1f**  
**ORGANICS VOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0019

<b>Sample Number:</b> AB74447	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-01B	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FD5236	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 12 Dec 2002 20:44	<b>Dilution Factor:</b> 125
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 85

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1	111-65-9	Octane	8.970	52 <i>J</i>
2	2216-34-4	Octane, 4-methyl-	9.840	43 <i>J</i>
3	111-84-2	Nonane	10.250	66 <i>J</i>
4	98-82-8	Benzene, (1-methylethyl)-	11.230	54 <i>J</i>
5	95-63-6	Benzene, 1,2,4-trimethyl-	11.290	80 <i>J</i>
6	526-73-8	Benzene, 1,2,3-trimethyl-	11.580	82 <i>J</i>
7	767-59-9	1H-Indene, 1-methyl-	13.090	52 <i>J</i>
8	91-20-3	Naphthalene	13.530	56 <i>J</i>
9	91-57-6	Naphthalene, 2-methyl-	14.370	58 <i>J</i>
10	90-12-0	Naphthalene, 1-methyl-	14.530	37 <i>J</i>

**Total Tentatively Identified Concentration      580**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\41133.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0020

**Sample Number:** AB74448 **Matrix:** Soil  
**Client Id:** FRSB-09A **Initial Volume:** 5g  
**Data File:** FA8207 **Final Volume:** NA  
**Date Analyzed:** 11 Dec 2002 19:00 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA **Percent Solids:** 88  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0057	U
79345	1,1,2,2-Tetrachloroethane	0.0057	U
79005	1,1,2-Trichloroethane	0.0057	U
75343	1,1-Dichloroethane	0.0057	U
75354	1,1-Dichloroethene	0.0057	U
107062	1,2-Dichloroethane	0.0057	U
78875	1,2-Dichloropropane	0.0057	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0057	U
591786	2-Hexanone	0.023	U
108101	4-Methyl-2-Pentanone	0.023	U
67641	Acetone	0.023	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0079	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0057	U
75252	Bromoform	0.0057	U
74839	Bromomethane	0.0057	U
75150	Carbon disulfide	0.0057	U
56235	Carbon tetrachloride	0.0057	U
108907	Chlorobenzene	0.0057	U
75003	Chloroethane	0.0057	U
67663	Chloroform	0.0057	U
74873	Chloromethane	0.0057	U
156592	Cis-1,2-Dichloroethene	0.0057	U
10061015	Cis-1,3-Dichloropropene	0.0057	U
124481	Dibromochloromethane	0.0057	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0023	U
75092	Methylene chloride	0.0057	0.0048 JB
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127184	Tetrachloroethene	0.0057	U
108883	Toluene	0.0011	U
156605	Trans-1,2-Dichloroethene	0.0057	U
10061026	Trans-1,3-Dichloropropene	0.0057	U
79016	Trichloroethene	0.0057	U
75014	Vinyl chloride	0.0057	U

**Total Target Concentration 0.0048**

*U - Indicates the compound was analyzed but not detected.  
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
 B - Indicates the analyte was found in the blank as well as in the sample.  
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0021

<b>Sample Number:</b> AB74448	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-09A	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8207	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 11 Dec 2002 19:00	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 88

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\32905.txt



**Form 1**  
ORGANICS VOLATILE REPORT

HC 0022

**Sample Number:** AB74449      **Matrix:** Soil  
**Client Id:** FRSB-09B      **Initial Volume:** 5g  
**Data File:** FA8206      **Final Volume:** NA  
**Date Analyzed:** 11 Dec 2002 18:34      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 80  
**Column:** Supelco 105 m vocol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethene	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
78933	2-Butanone	0.031	U
110758	2-Chloroethylvinylether	0.0062	U
591786	2-Hexanone	0.025	U
108101	4-Methyl-2-Pentanone	0.025	U
67641	Acetone	0.025	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0087	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
75150	Carbon disulfide	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
156592	Cis-1,2-Dichloroethene	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	0.0058 JB
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

**Total Target Concentration 0.0058**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\30748.txt

**Formle/If**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0023

<b>Sample Number:</b> AB74449	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-09B	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8206	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 11 Dec 2002 18:34	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 80

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		unknown	12.580	0.0041 J $\oplus$

**Total Tentatively Identified Concentration**      0.0041

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\30748.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0024

**Sample Number:** AB74450(MS:AB7                      **Matrix:** Soil  
**Client Id:** FRSB-09B MS                      **Initial Volume:** 5g  
**Data File:** FA8204                      **Final Volume:** NA  
**Date Analyzed:** 11 Dec 2002 17:42                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA                      **Percent Solids:** 85  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0059	0.067
79345	1,1,2,2-Tetrachloroethane	0.0059	0.057
79005	1,1,2-Trichloroethane	0.0059	0.060
75343	1,1-Dichloroethane	0.0059	0.062
75354	1,1-Dichloroethene	0.0059	0.076
107062	1,2-Dichloroethane	0.0059	0.064
78875	1,2-Dichloropropane	0.0059	0.055
78933	2-Butanone	0.029	0.082
110758	2-Chloroethylvinylether	0.0059	0.040
591786	2-Hexanone	0.024	0.070
108101	4-Methyl-2-Pentanone	0.024	0.059
67641	Acetone	0.024	0.61
107028	Acrolein	0.018	0.40
107131	Acrylonitrile	0.0082	0.31
71432	Benzene	0.0012	0.056
75274	Bromodichloromethane	0.0059	0.063
75252	Bromoform	0.0059	0.062
74839	Bromomethane	0.0059	0.070
75150	Carbon disulfide	0.0059	0.064
56235	Carbon tetrachloride	0.0059	0.070
108907	Chlorobenzene	0.0059	0.058
75003	Chloroethane	0.0059	0.060
67663	Chloroform	0.0059	0.064
74873	Chloromethane	0.0059	0.049
156592	Cis-1,2-Dichloroethene	0.0059	0.057
10061015	Cis-1,3-Dichloropropene	0.0059	0.058
124481	Dibromochloromethane	0.0059	0.066
100414	Ethylbenzene	0.0012	0.055
108383	M&p-Xylenes	0.0024	0.11
75092	Methylene chloride	0.0059	0.059 B
95476	O-Xylene	0.0012	0.057
100425	Styrene	0.0012	0.058
127184	Tetrachloroethene	0.0059	0.059
108883	Toluene	0.0012	0.061
156605	Trans-1,2-Dichloroethene	0.0059	0.066
10061026	Trans-1,3-Dichloropropene	0.0059	0.060
79016	Trichloroethene	0.0059	0.060
75014	Vinyl chloride	0.0059	0.053

**Total Target Concentration 3.5**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\122801.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0025

**Sample Number:** AB74450(MS:AB7444      **Matrix:** Soil  
**Client Id:** FRSB-09B MS      **Initial Volume:** 5g  
**Data File:** FA8204      **Final Volume:** NA  
**Date Analyzed:** 11 Dec 2002 17:42      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 85

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1	74-97-5	Methane, bromochloro-	6.450	0.023 <i>J</i>

**Total Tentatively Identified Concentration**      0.023

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\122801.txt

**Form1**  
**ORGANICS VOLATILE REPORT**

**Sample Number:** AB74451(MSD:AB) **Matrix:** Soil  
**Client Id:** FRSB-09B MSD **Initial Volume:** 5g  
**Data File:** FA8203 **Final Volume:** NA  
**Date Analyzed:** 11 Dec 2002 17:16 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA **Percent Solids:** 85  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0026

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0059	0.063
79345	1,1,2,2-Tetrachloroethane	0.0059	0.054
79005	1,1,2-Trichloroethane	0.0059	0.055
75343	1,1-Dichloroethane	0.0059	0.057
75354	1,1-Dichloroethene	0.0059	0.070
107062	1,2-Dichloroethane	0.0059	0.061
78875	1,2-Dichloropropane	0.0059	0.052
78933	2-Butanone	0.029	0.073
110758	2-Chloroethylvinylether	0.0059	0.040
591786	2-Hexanone	0.024	0.065
108101	4-Methyl-2-Pentanone	0.024	0.054
67641	Acetone	0.024	0.58
107028	Acrolein	0.018	0.36
107131	Acrylonitrile	0.0082	0.28
71432	Benzene	0.0012	0.054
75274	Bromodichloromethane	0.0059	0.063
75252	Bromoform	0.0059	0.058
74839	Bromomethane	0.0059	0.067
75150	Carbon disulfide	0.0059	0.059
56235	Carbon tetrachloride	0.0059	0.066
108907	Chlorobenzene	0.0059	0.055
75003	Chloroethane	0.0059	0.055
67663	Chloroform	0.0059	0.060
74873	Chloromethane	0.0059	0.046
156592	Cis-1,2-Dichloroethene	0.0059	0.058
10061015	Cis-1,3-Dichloropropene	0.0059	0.055
124481	Dibromochloromethane	0.0059	0.062
100414	Ethylbenzene	0.0012	0.052
108383	M&p-Xylenes	0.0024	0.11
75092	Methylene chloride	0.0059	0.055 B
95476	O-Xylene	0.0012	0.055
100425	Styrene	0.0012	0.055
127184	Tetrachloroethene	0.0059	0.058
108883	Toluene	0.0012	0.055
156605	Trans-1,2-Dichloroethene	0.0059	0.061
10061026	Trans-1,3-Dichloropropene	0.0059	0.057
79016	Trichloroethene	0.0059	0.057
75014	Vinyl chloride	0.0059	0.051

**Total Target Concentration 3.3**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\122801.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
**Tentatively Identified Compounds**

HC 0027

<b>Sample Number:</b> AB74451(MSD:AB744	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-09B MSD	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8203	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 11 Dec 2002 17:16	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 85

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1	74-97-5	Methane, bromochloro-	6.450	0.021 J

**Total Tentatively Identified Concentration**      0.021

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\122801.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0028

**Sample Number:** AB74452      **Matrix:** Water  
**Client Id:** STB120402      **Initial Volume:** 5ml  
**Data File:** FD5128      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 14:05      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0029

<b>Sample Number:</b> AB74452	<b>Matrix:</b> Water
<b>Client Id:</b> STB120402	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FD5128	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 14:05	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 0

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration ug/L</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\41133.txt



**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0030

**Sample Number:** AB74441      **Matrix:** Soil  
**Client Id:** FRSB-04A      **Initial Volume:** 30g  
**Data File:** FC4432      **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 19:21      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02      **Percent Solids:** 88  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.38	U
95501	1,2-Dichlorobenzene	0.38	U
122667	1,2-Diphenylhydrazine	0.38	U
541731	1,3-Dichlorobenzene	0.38	U
106467	1,4-Dichlorobenzene	0.38	U
121142	2,4-Dinitrotoluene	0.38	U
606202	2,6-Dinitrotoluene	0.38	U
91587	2-Chloronaphthalene	0.38	U
91576	2-Methylnaphthalene	0.38	1.6
88744	2-Nitroaniline	0.38	U
91941	3,3'-Dichlorobenzidine	0.38	U
99092	3-Nitroaniline	0.38	U
101553	4-Bromophenyl-phenylether	0.38	U
106478	4-Chloroaniline	0.38	U
7005723	4-Chlorophenyl-phenylether	0.38	U
100016	4-Nitroaniline	0.38	U
83329	Acenaphthene	0.38	0.23 J
208968	Acenaphthylene	0.38	1.1
120127	Anthracene	0.38	0.55
92875	Benzidine	0.76	U
56553	Benzo[a]anthracene	0.38	0.55
50328	Benzo[a]pyrene	0.38	0.34 J
205992	Benzo[b]fluoranthene	0.38	0.56
191242	Benzo[g,h,i]perylene	0.38	0.23 J
207089	Benzo[k]fluoranthene	0.38	0.26 J
111911	Bis(2-Chloroethoxy)methane	0.38	U
111444	Bis(2-Chloroethyl)Ether	0.38	U
108601	Bis(2-Chloroisopropyl)ether	0.38	U
117817	Bis(2-Ethylhexyl)phthalate	0.38	0.18 JB
85687	Butylbenzylphthalate	0.38	U
86748	Carbazole	0.38	U
218019	Chrysene	0.38	0.66
117840	DI-n-octylphthalate	0.38	U
84742	DI-n-butylphthalate	0.38	0.049 J
53703	Dibenzo[a,h]Anthracene	0.38	0.042 J
132649	Dibenzofuran	0.38	U
84662	Diethylphthalate	0.38	U
131113	Dimethylphthalate	0.38	U
206440	Fluoranthene	0.38	1.9
86737	Fluorene	0.38	0.75
118741	Hexachlorobenzene	0.38	U
87683	Hexachlorobutadiene	0.38	U
77474	Hexachlorocyclopentadiene	0.38	U
67721	Hexachloroethane	0.38	U
193395	Indeno[1,2,3-cd]pyrene	0.38	0.19 J
78591	Isophorone	0.38	U
621647	N-Nitroso-Di-N-Propylamine	0.38	U
62759	N-Nitrosodimethylamine	0.38	U
86306	N-Nitrosodiphenylamine	0.38	U
91203	Naphthalene	0.38	4.7
98953	Nitrobenzene	0.38	U
85018	Phenanthrene	0.38	2.9
129000	Pyrene	0.38	2.2

**Total Target Concentration 19**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File:** h:\import\20839.txt

**Formle/If**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0031

<b>Sample Number:</b> AB74441	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-04A	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4432	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 19:21	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 88

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	2.400	0.79 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	2.950	21 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.460	6.5 J AB
4	100-42-5	Styrene	4.060	0.72 J
5	622-97-9	Benzene, 1-ethenyl-4-methyl-	5.260	0.71 J
6	673-32-5	Benzene, 1-propynyl-	5.800	0.69 J
7	2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	6.290	0.34 J
8	92-52-4	1,1'-Biphenyl	8.790	0.50 J
9	827-54-3	Naphthalene, 2-ethenyl-	9.200	0.36 J
10		unknown	10.180	0.40 J
11		unknown	11.430	0.44 J B
12	35465-71-5	2-PHENYLNAPHTHALENE	12.700	0.81 J
13		unknown	14.530	1.1 J B
14		unknown	16.350	0.96 J B
15	192-97-2	Benzo[e]pyrene	16.880	0.48 J

**Total Tentatively Identified Concentration      36**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File:** h:\import\50817.txt

**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0032

**Sample Number:** AB74442      **Matrix:** Soil  
**Client Id:** FRSB-04B      **Initial Volume:** 30g  
**Data File:** FE1148      **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 22:35      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02      **Percent Solids:** 81  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.41	U
95501	1,2-Dichlorobenzene	0.41	U
122667	1,2-Diphenylhydrazine	0.41	U
541731	1,3-Dichlorobenzene	0.41	U
106467	1,4-Dichlorobenzene	0.41	U
121142	2,4-Dinitrotoluene	0.41	U
606202	2,6-Dinitrotoluene	0.41	U
91587	2-Chloronaphthalene	0.41	U
91576	2-Methylnaphthalene	0.41	U
88744	2-Nitroaniline	0.41	U
91941	3,3'-Dichlorobenzidine	0.41	U
99092	3-Nitroaniline	0.41	U
101553	4-Bromophenyl-phenylether	0.41	U
106478	4-Chloroaniline	0.41	U
7005723	4-Chlorophenyl-phenylether	0.41	U
100016	4-Nitroaniline	0.41	U
83329	Acenaphthene	0.41	U
208968	Acenaphthylene	0.41	U
120127	Anthracene	0.41	U
92875	Benidine	0.82	U
56553	Benzo[a]anthracene	0.41	U
50328	Benzo[a]pyrene	0.41	U
205992	Benzo[b]fluoranthene	0.41	U
191242	Benzo[g,h,i]perylene	0.41	U
207089	Benzo[k]fluoranthene	0.41	U
111911	Bis(2-Chloroethoxy)methane	0.41	U
111444	Bis(2-Chloroethyl)Ether	0.41	U
108601	Bis(2-Chloroisopropyl)ether	0.41	U
117817	Bis(2-Ethylhexyl)phthalate	0.41	0.15 JB
85687	Butylbenzylphthalate	0.41	U
86748	Carbazole	0.41	U
218019	Chrysene	0.41	U
117840	Di-n-octylphthalate	0.41	U
84742	Di-n-butylphthalate	0.41	U
53703	Dibenzof[a,h]Anthracene	0.41	U
132649	Dibenzofuran	0.41	U
84662	Diethylphthalate	0.41	U
131113	Dimethylphthalate	0.41	U
206440	Fluoranthene	0.41	U
86737	Fluorene	0.41	U
118741	Hexachlorobenzene	0.41	U
87683	Hexachlorobutadiene	0.41	U
77474	Hexachlorocyclopentadiene	0.41	U
67721	Hexachloroethane	0.41	U
193395	Indeno[1,2,3-cd]pyrene	0.41	U
78591	Isophorone	0.41	U
621647	N-Nitroso-Di-N-Propylamine	0.41	U
62759	N-Nitrosodimethylamine	0.41	U
86306	N-Nitrosodiphenylamine	0.41	U
91203	Naphthalene	0.41	U
98953	Nitrobenzene	0.41	U
85018	Phenanthrene	0.41	0.052 J
129000	Pyrene	0.41	0.047 J

**Total Target Concentration 0.25**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0033

<b>Sample Number:</b> AB74442	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-04B	<b>Initial Volume:</b> 30g
<b>Data File:</b> FE1148	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 22:35	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 81

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	1.910	0.44 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	2.490	35 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.200	5.8 J A B
4		unknown	7.640	0.18 J
5		unknown	8.600	0.26 J
6	10544-50-0	Sulfur, mol. (S8)	10.080	0.34 J
7	301-02-0	9-Octadecenamide, (Z)-	11.150	0.94 J B
8	301-02-0	9-Octadecenamide, (Z)-	12.750	0.35 J

**Total Tentatively Identified Concentration      43**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File:** h:\import\20839.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0034

**Sample Number:** AB74443      **Matrix:** Soil  
**Client Id:** FRTT-01      **Initial Volume:** 30g  
**Data File:** FC4433      **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 19:46      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02      **Percent Solids:** 87  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.38	U
95501	1,2-Dichlorobenzene	0.38	U
122667	1,2-Diphenylhydrazine	0.38	U
541731	1,3-Dichlorobenzene	0.38	U
106467	1,4-Dichlorobenzene	0.38	U
121142	2,4-Dinitrotoluene	0.38	U
606202	2,6-Dinitrotoluene	0.38	U
91587	2-Chloronaphthalene	0.38	U
91576	2-Methylnaphthalene	0.38	U
88744	2-Nitroaniline	0.38	U
91941	3,3'-Dichlorobenzidine	0.38	U
99092	3-Nitroaniline	0.38	U
101553	4-Bromophenyl-phenylether	0.38	U
106478	4-Chloroaniline	0.38	U
7005723	4-Chlorophenyl-phenylether	0.38	U
100016	4-Nitroaniline	0.38	U
83329	Acenaphthene	0.38	U
208968	Acenaphthylene	0.38	0.66
120127	Anthracene	0.38	0.082 J
92875	Benzidine	0.77	U
56553	Benzo[a]anthracene	0.38	0.070 J
50328	Benzo[a]pyrene	0.38	0.24 J
205992	Benzo[b]fluoranthene	0.38	0.26 J
191242	Benzo[g,h,i]perylene	0.38	0.78
207089	Benzo[k]fluoranthene	0.38	0.090 J
111911	Bis(2-Chloroethoxy)methane	0.38	U
111444	Bis(2-Chloroethyl)Ether	0.38	U
108601	Bis(2-Chloroisopropyl)ether	0.38	U
117817	Bis(2-Ethylhexyl)phthalate	0.38	0.24 JB
85687	Butylbenzylphthalate	0.38	U
86748	Carbazole	0.38	U
218019	Chrysene	0.38	0.070 J
117840	Di-n-octylphthalate	0.38	0.042 J
84742	Di-n-butylphthalate	0.38	0.078 J
53703	Dibenz[a,h]Anthracene	0.38	U
132649	Dibenzofuran	0.38	U
84662	Diethylphthalate	0.38	U
131113	Dimethylphthalate	0.38	U
206440	Fluoranthene	0.38	0.11 J
86737	Fluorene	0.38	U
118741	Hexachlorobenzene	0.38	U
87683	Hexachlorobutadiene	0.38	U
77474	Hexachlorocyclopentadiene	0.38	U
67721	Hexachloroethane	0.38	U
193395	Indeno[1,2,3-cd]pyrene	0.38	0.45
78591	Isophorone	0.38	U
621647	N-Nitroso-Di-N-Propylamine	0.38	U
62759	N-Nitrosodimethylamine	0.38	U
86306	N-Nitrosodiphenylamine	0.38	U
91203	Naphthalene	0.38	U
98953	Nitrobenzene	0.38	U
85018	Phenanthrene	0.38	0.043 J
129000	Pyrene	0.38	0.17 J

**Total Target Concentration 3.4**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File: h:\import\20839.txt

**Formle/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0035

<b>Sample Number:</b> AB74443	<b>Matrix:</b> Soil
<b>Client Id:</b> FRTT-01	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4433	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 19:46	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 87

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	2.380	1.8 J B
2	544-25-2	1,3,5-Cycloheptatriene	2.600	0.53 J
3	141-79-7	3-Penten-2-one, 4-methyl-	2.950	20 J B
4	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.470	7.0 J A B
5	100-42-5	Styrene	4.060	1.6 J
6	637-50-3	Benzene, 1-propenyl-	5.260	1.0 J
7	95-13-6	1H-Indene	5.800	0.94 J
8	39491-73-1	(E)-4-METHYL-1-PHENYL-1,3-PENTADIEN	7.400	0.49 J
9	30316-23-5	Naphthalene, 1,2-dihydro-2,5,8-trimethyl	7.990	1.7 J
10		unknown	11.430	0.49 J B
11		unknown	12.230	0.44 J
12		unknown	12.660	0.54 J
13	1120-07-6	Nonanamide	14.540	1.2 J
14	74685-30-6	5-Eicosene, (E)-	16.000	0.85 J
15	301-02-0	9-Octadecenamide, (Z)-	16.350	0.82 J

**Total Tentatively Identified Concentration      39**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File:** h:\import\20839.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0036

**Sample Number:** AB74444(3X) **Matrix:** Soil  
**Client Id:** FRTT-02 **Initial Volume:** 30g  
**Data File:** FC4434 **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 20:12 **Dilution Factor:** 3  
**Date Received/Extracted:** 12/6/02-12/9/02 **Percent Solids:** 83  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	1.2	U
95501	1,2-Dichlorobenzene	1.2	U
122667	1,2-Diphenylhydrazine	1.2	U
541731	1,3-Dichlorobenzene	1.2	U
106467	1,4-Dichlorobenzene	1.2	U
121142	2,4-Dinitrotoluene	1.2	U
606202	2,6-Dinitrotoluene	1.2	U
91587	2-Chloronaphthalene	1.2	U
91576	2-Methylnaphthalene	1.2	0.19 J
88744	2-Nitroaniline	1.2	U
91941	3,3'-Dichlorobenzidine	1.2	U
99092	3-Nitroaniline	1.2	U
101553	4-Bromophenyl-phenylether	1.2	U
106478	4-Chloroaniline	1.2	U
7005723	4-Chlorophenyl-phenylether	1.2	U
100016	4-Nitroaniline	1.2	U
83329	Acenaphthene	1.2	0.38 J
208968	Acenaphthylene	1.2	U
120127	Anthracene	1.2	1.2
92875	Benzidine	2.4	U
56553	Benzo[a]anthracene	1.2	2.3
50328	Benzo[a]pyrene	1.2	2.1
205992	Benzo[b]fluoranthene	1.2	3.3
191242	Benzo[g,h,i]perylene	1.2	0.78 J
207089	Benzo[k]fluoranthene	1.2	1.0 J
111911	Bis(2-Chloroethoxy)methane	1.2	U
111444	Bis(2-Chloroethyl)Ether	1.2	U
108601	Bis(2-Chloroisopropyl)ether	1.2	U
117817	Bis(2-Ethylhexyl)phthalate	1.2	0.36 JB
85687	Butylbenzylphthalate	1.2	U
86748	Carbazole	1.2	0.67 J
218019	Chrysene	1.2	2.3
117840	Di-n-octylphthalate	1.2	U
84742	Di-n-butylphthalate	1.2	U
53703	Dibenzo[a,h]Anthracene	1.2	0.39 J
132649	Dibenzofuran	1.2	0.33 J
84662	Diethylphthalate	1.2	U
131113	Dimethylphthalate	1.2	U
206440	Fluoranthene	1.2	5.1
86737	Fluorene	1.2	0.39 J
118741	Hexachlorobenzene	1.2	U
87683	Hexachlorobutadiene	1.2	U
77474	Hexachlorocyclopentadiene	1.2	U
67721	Hexachloroethane	1.2	U
193395	Indeno[1,2,3-cd]pyrene	1.2	0.88 J
78591	Isophorone	1.2	U
621647	N-Nitroso-Di-N-Propylamine	1.2	U
62759	N-Nitrosodimethylamine	1.2	U
86306	N-Nitrosodiphenylamine	1.2	U
91203	Naphthalene	1.2	0.27 J
98953	Nitrobenzene	1.2	U
85018	Phenanthrene	1.2	4.8
129000	Pyrene	1.2	4.1

**Total Target Concentration 31**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0037

<b>Sample Number:</b> AB74444(3X)	<b>Matrix:</b> Soil
<b>Client Id:</b> FRTT-02	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4434	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 20:12	<b>Dilution Factor:</b> 3
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 83

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	2.400	0.65 J B
2	10574-37-5	2-Pentene, 2,3-dimethyl-	2.930	26 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.440	7.0 J AB
4	132-65-0	Dibenzothiophene	11.440	0.72 J
5	779-02-2	Anthracene, 9-methyl-	12.320	0.57 J
6	90-60-8	Benzaldehyde, 3,5-dichloro-2-hydroxy-	12.430	0.60 J
7	84-65-1	9,10-Anthracenedione	12.730	0.59 J
8		unknown	14.540	0.88 J B
9		unknown	16.360	1.2 J B
10	198-55-0	Perylene	16.680	0.75 J
11	629-92-5	Nonadecane	16.810	0.63 J
12	192-97-2	Benzo[e]pyrene	16.900	2.0 J
13		unknown	17.340	0.86 J
14		unknown	18.010	0.69 J
15	215-58-7	1,2:3,4-Dibenzoanthracene	18.450	0.57 J

**Total Tentatively Identified Concentration      44**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File:** h:\import\20839.txt



**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0038

**Sample Number:** AB74445(10X) **Matrix:** Soil  
**Client Id:** FRTT-03 **Initial Volume:** 30g  
**Data File:** FC4437 **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 21:28 **Dilution Factor:** 10  
**Date Received/Extracted:** 12/6/02-12/9/02 **Percent Solids:** 63  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	5.3	U
95501	1,2-Dichlorobenzene	5.3	U
122667	1,2-Diphenylhydrazine	5.3	U
541731	1,3-Dichlorobenzene	5.3	U
106467	1,4-Dichlorobenzene	5.3	U
95954	2,4,5-Trichlorophenol	5.3	U
88062	2,4,6-Trichlorophenol	5.3	U
120832	2,4-Dichlorophenol	5.3	U
105679	2,4-Dimethylphenol	5.3	U
51285	2,4-Dinitrophenol	5.3	U
121142	2,4-Dinitrotoluene	5.3	U
606202	2,6-Dinitrotoluene	5.3	U
91587	2-Chloronaphthalene	5.3	U
95578	2-Chlorophenol	5.3	U
91576	2-Methylnaphthalene	5.3	1.6 J
95487	2-Methylphenol	5.3	U
88744	2-Nitroaniline	5.3	U
88755	2-Nitrophenol	5.3	U
106445	3&4-Methylphenol	5.3	U
91941	3,3'-Dichlorobenzidine	5.3	U
99092	3-Nitroaniline	5.3	U
534521	4,6-Dinitro-2-methylphenol	5.3	U
101553	4-Bromophenyl-phenylether	5.3	U
59507	4-Chloro-3-methylphenol	5.3	U
106478	4-Chloroaniline	5.3	U
7005723	4-Chlorophenyl-phenylether	5.3	U
100016	4-Nitroaniline	5.3	U
100027	4-Nitrophenol	5.3	U
83329	Acenaphthene	5.3	1.1 J
208968	Acenaphthylene	5.3	4.7 J
120127	Anthracene	5.3	5.8 J
92875	Benidine	11	U
56553	Benzo[a]anthracene	5.3	17
50328	Benzo[a]pyrene	5.3	14
205992	Benzo[b]fluoranthene	5.3	25
191242	Benzo[g,h,i]perylene	5.3	4.1 J
207089	Benzo[k]fluoranthene	5.3	6.4
111911	Bis(2-Chloroethoxy)methane	5.3	U
111444	Bis(2-Chloroethyl)Ether	5.3	U
108601	Bis(2-Chloroisopropyl)ether	5.3	U
117817	Bis(2-Ethylhexyl)phthalate	5.3	U
85687	Butylbenzylphthalate	5.3	U
86748	Carbazole	5.3	3.1 J
218019	Chrysene	5.3	17
117840	DI-n-octylphthalate	5.3	U
84742	Di-n-butylphthalate	5.3	U
53703	Dibenzo[a,h]Anthracene	5.3	0.79 J
132649	Dibenzofuran	5.3	3.1 J
84662	Diethylphthalate	5.3	U
131113	Dimethylphthalate	5.3	U
206440	Fluoranthene	5.3	33
86737	Fluorene	5.3	5.6
118741	Hexachlorobenzene	5.3	U
87683	Hexachlorobutadiene	5.3	U
77474	Hexachlorocyclopentadiene	5.3	U
67721	Hexachloroethane	5.3	U
193395	Indeno[1,2,3-cd]pyrene	5.3	4.8 J
78591	Isophorone	5.3	U
621647	N-Nitroso-Di-N-Propylamine	5.3	U
62759	N-Nitrosodimethylamine	5.3	U
86306	N-Nitrosodiphenylamine	5.3	U
91203	Naphthalene	5.3	2.6 J
98953	Nitrobenzene	5.3	U
87865	Pentachlorophenol	5.3	U
85018	Phenanthrene	5.3	28
108952	Phenol	5.3	U
129000	Pyrene	5.3	28

**Total Target Concentration 210**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0039

<b>Sample Number:</b> AB74445(10X)	<b>Matrix:</b> Soil
<b>Client Id:</b> FRTT-03	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4437	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 21:28	<b>Dilution Factor:</b> 10
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 63

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1	141-79-7	3-Penten-2-one, 4-methyl-	2.920	38 J $\beta$
2	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.440	8.6 J AB
3	1556-99-6	9H-Fluorene, 4-methyl-	11.070	3.1 J
4	486-25-9	9H-Fluoren-9-one	11.340	2.2 J
5		unknown	11.440	4.0 J $\beta$
6	613-12-7	Anthracene, 2-methyl-	12.290	4.3 J
7	779-02-2	Anthracene, 9-methyl-	12.330	5.7 J
8	203-64-5	4H-Cyclopenta[def]phenanthrene	12.430	6.4 J
9	84-65-1	9,10-Anthracenedione	12.730	9.0 J
10	3674-66-6	Phenanthrene, 2,5-dimethyl-	13.040	3.9 J
11	5737-13-3	CYCLOPENTA(DEF)PHENANTHRENONE	13.160	4.1 J
12	2381-21-7	Pyrene, 1-methyl-	14.010	3.7 J
13	2381-21-7	Pyrene, 1-methyl-	14.160	2.1 J
14	2498-66-0	Benz[a]anthracene-7,12-dione	16.160	2.3 J
15	-00-0	BENZO(A)PYRENE-4,5-OXIDE	16.820	4.2 J
16	89140-90-9	6,11-Dihydroxy-12H-benzo[b]xanthen-12-on	18.140	2.6 J
17	214-17-5	Benzo[b]chrysene	18.460	3.5 J

**Total Tentatively Identified Concentration**      110

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\121857.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0040

Sample Number: AB74446(5X)

Matrix: Soil

Client Id: FRSB-01A

Initial Volume: 30g

Data File: FC4436

Final Volume: 1ml

Date Analyzed: 10 Dec 2002 21:02

Dilution Factor: 5

Date Received/Extracted: 12/6/02-12/9/02

Percent Solids: 92

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	1.8	U
95501	1,2-Dichlorobenzene	1.8	U
122667	1,2-Diphenylhydrazine	1.8	U
541731	1,3-Dichlorobenzene	1.8	U
106467	1,4-Dichlorobenzene	1.8	U
121142	2,4-Dinitrotoluene	1.8	U
606202	2,6-Dinitrotoluene	1.8	U
91587	2-Chloronaphthalene	1.8	U
91576	2-Methylnaphthalene	1.8	7.0
88744	2-Nitroaniline	1.8	U
91941	3,3'-Dichlorobenzidine	1.8	U
99092	3-Nitroaniline	1.8	U
101553	4-Bromophenyl-phenylether	1.8	U
106478	4-Chloroaniline	1.8	U
7005723	4-Chlorophenyl-phenylether	1.8	U
100016	4-Nitroaniline	1.8	U
83329	Acenaphthene	1.8	1.5 J
208968	Acenaphthylene	1.8	U
120127	Anthracene	1.8	0.59 J
92875	Benazidine	3.6	U
56553	Benzo[a]anthracene	1.8	0.43 J
50328	Benzo[a]pyrene	1.8	0.41 J
205992	Benzo[b]fluoranthene	1.8	0.86 J
191242	Benzo[g,h,i]perylene	1.8	0.29 J
207089	Benzo[k]fluoranthene	1.8	0.37 J
111911	Bis(2-Chloroethoxy)methane	1.8	U
111444	Bis(2-Chloroethyl)Ether	1.8	U
108601	Bis(2-Chloroisopropyl)ether	1.8	U
117817	Bis(2-Ethylhexyl)phthalate	1.8	6.5 B
85687	Butylbenzylphthalate	1.8	U
86748	Carbazole	1.8	U
218019	Chrysene	1.8	0.46 J
117840	Di-n-octylphthalate	1.8	7.4
84742	Di-n-butylphthalate	1.8	U
53703	Dibenzo[a,h]Anthracene	1.8	U
132649	Dibenzofuran	1.8	0.72 J
84662	Diethylphthalate	1.8	U
131113	Dimethylphthalate	1.8	U
206440	Fluoranthene	1.8	0.85 J
86737	Fluorene	1.8	2.7
118741	Hexachlorobenzene	1.8	U
87683	Hexachlorobutadiene	1.8	U
77474	Hexachlorocyclopentadiene	1.8	U
67721	Hexachloroethane	1.8	U
193395	Indeno[1,2,3-cd]pyrene	1.8	0.29 J
78591	Isophorone	1.8	U
621647	N-Nitroso-Di-N-Propylamine	1.8	U
62759	N-Nitrosodimethylamine	1.8	U
86306	N-Nitrosodiphenylamine	1.8	U
91203	Naphthalene	1.8	2.3
98953	Nitrobenzene	1.8	U
85018	Phenanthrene	1.8	3.6
129000	Pyrene	1.8	2.0

**Total Target Concentration 38**

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\20839.txt

**Formle/lf**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0041

<b>Sample Number:</b> AB74446(5X)	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-01A	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4436	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 21:02	<b>Dilution Factor:</b> 5
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 92

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1	141-79-7	3-Penten-2-one, 4-methyl-	2.930	30 J $\beta$
2	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.440	7.9 J A $\beta$
3		unknown	5.690	5.5 J
4	99-87-6	Benzene, 1-methyl-4-(1-methylethyl)-	5.910	4.7 J
5	767-99-7	Benzene, (1-methyl-1-propenyl)-, (Z)-	6.830	4.8 J
6	17302-28-2	Nonane, 2,6-dimethyl-	7.840	5.8 J
7	1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl	8.090	7.5 J
8	1795-16-0	Cyclohexane, decyl-	8.470	5.6 J
9	575-41-7	Naphthalene, 1,3-dimethyl-	9.140	5.2 J
10	575-43-9	Naphthalene, 1,6-dimethyl-	9.170	5.7 J
11	54833-48-6	Heptadecane, 2,6,10,15-tetramethyl-	9.300	12 J
12	2131-42-2	Naphthalene, 1,4,6-trimethyl-	10.040	4.8 J
13		unknown	10.430	6.5 J
14	62108-26-3	Decane, 2,6,8-trimethyl-	10.590	6.8 J
15	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	10.960	9.2 J

**Total Tentatively Identified Concentration**      120

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File:** h:\import\20839.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0042

**Sample Number:** AB74447(10X) **Matrix:** Soil  
**Client Id:** FRSB-01B **Initial Volume:** 30g  
**Data File:** FC4468 **Final Volume:** 1ml  
**Date Analyzed:** 11 Dec 2002 17:15 **Dilution Factor:** 10  
**Date Received/Extracted:** 12/6/02-12/9/02 **Percent Solids:** 85  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	3.9	U
95501	1,2-Dichlorobenzene	3.9	U
122667	1,2-Diphenylhydrazine	3.9	U
541731	1,3-Dichlorobenzene	3.9	U
106467	1,4-Dichlorobenzene	3.9	U
95954	2,4,5-Trichlorophenol	3.9	U
88062	2,4,6-Trichlorophenol	3.9	U
120832	2,4-Dichlorophenol	3.9	U
105679	2,4-Dimethylphenol	3.9	U
51285	2,4-Dinitrophenol	3.9	U
121142	2,4-Dinitrotoluene	3.9	U
606202	2,6-Dinitrotoluene	3.9	U
91587	2-Chloronaphthalene	3.9	U
95578	2-Chlorophenol	3.9	U
91576	2-Methylnaphthalene	3.9	53
95487	2-Methylphenol	3.9	U
88744	2-Nitroaniline	3.9	U
88755	2-Nitrophenol	3.9	U
106445	3&4-Methylphenol	3.9	U
91941	3,3'-Dichlorobenzidine	3.9	U
99092	3-Nitroaniline	3.9	U
534521	4,6-Dinitro-2-methylphenol	3.9	U
101553	4-Bromophenyl-phenylether	3.9	U
59507	4-Chloro-3-methylphenol	3.9	U
106478	4-Chloroaniline	3.9	U
7005723	4-Chlorophenyl-phenylether	3.9	U
100016	4-Nitroaniline	3.9	U
100027	4-Nitrophenol	3.9	U
83329	Acenaphthene	3.9	9.0
208968	Acenaphthylene	3.9	52
120127	Anthracene	3.9	16
92875	Benzidine	7.8	U
56553	Benzo[a]anthracene	3.9	9.3
50328	Benzo[a]pyrene	3.9	8.8
205992	Benzo[b]fluoranthene	3.9	8.4
191242	Benzo[g,h,i]perylene	3.9	6.0
207089	Benzo[k]fluoranthene	3.9	2.2 J
111911	Bis(2-Chloroethoxy)methane	3.9	U
111444	Bis(2-Chloroethyl)Ether	3.9	U
108601	Bis(2-Chloroisopropyl)ether	3.9	U
117817	Bis(2-Ethylhexyl)phthalate	3.9	0.43 JB
85687	Butylbenzylphthalate	3.9	U
86748	Carbazole	3.9	U
218019	Chrysene	3.9	9.5
117840	DI-n-octylphthalate	3.9	U
84742	Di-n-butylphthalate	3.9	U
53703	Dibenzo[a,h]Anthracene	3.9	U
132649	Dibenzofuran	3.9	0.47 J
84662	Diethylphthalate	3.9	U
131113	Dimethylphthalate	3.9	U
206440	Fluoranthene	3.9	27
86737	Fluorene	3.9	25
118741	Hexachlorobenzene	3.9	U
87683	Hexachlorobutadiene	3.9	U
77474	Hexachlorocyclopentadiene	3.9	U
67721	Hexachloroethane	3.9	U
193395	Indeno[1,2,3-cd]pyrene	3.9	3.9 J
78591	Isophorone	3.9	U
621647	N-Nitroso-Di-N-Propylamine	3.9	U
62759	N-Nitrosodimethylamine	3.9	U
86306	N-Nitrosodiphenylamine	3.9	U
91203	Naphthalene	3.9	34
98953	Nitrobenzene	3.9	U
87865	Pentachlorophenol	3.9	U
85018	Phenanthrene	3.9	62
108952	Phenol	3.9	U
129000	Pyrene	3.9	39

**Total Target Concentration 370**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\121857.txt

**Formle/lf**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0043

<b>Sample Number:</b> AB74447(10X)	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-01B	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4468	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 11 Dec 2002 17:15	<b>Dilution Factor:</b> 10
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 85

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1	141-79-7	3-Penten-2-one, 4-methyl-	2.930	36 J $\beta$
2	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.450	7.9 J AB
3	103-65-1	Benzene, propyl-	4.800	3.9 J
4	611-14-3	Benzene, 1-ethyl-2-methyl-	4.880	13 J
5	95-63-6	Benzene, 1,2,4-trimethyl-	4.980	14 J
6	95-63-6	Benzene, 1,2,4-trimethyl-	5.260	47 J
7	108-67-8	Benzene, 1,3,5-trimethyl-	5.550	8.8 J
8	1678-91-7	Cyclohexane, ethyl-	5.670	4.6 J
9	2327-99-3	Benzene, 1,2-propadienyl-	5.810	4.4 J
10	1074-43-7	Benzene, 1-methyl-3-propyl-	5.850	5.4 J
11	99-87-6	Benzene, 1-methyl-4-(1-methylethyl)-	5.910	7.7 J
12	13151-34-3	Decane, 3-methyl-	6.010	4.1 J
13	1120-21-4	Undecane	6.310	21 J
14	767-59-9	1H-Indene, 1-methyl-	6.850	8.7 J
15	767-59-9	1H-Indene, 1-methyl-	6.900	5.8 J
16	90-12-0	Naphthalene, 1-methyl-	8.290	11 J
17	92-52-4	1,1'-Biphenyl	8.810	23 J
18	939-27-5	Naphthalene, 2-ethyl-	8.920	4.6 J
19	575-41-7	Naphthalene, 1,3-dimethyl-	9.110	5.3 J
20	827-54-3	Naphthalene, 2-ethenyl-	9.200	9.6 J
21	573-98-8	Naphthalene, 1,2-dimethyl-	9.280	3.9 J
22	203-80-5	1H-Phenylene	10.190	3.6 J
23	86-73-7	9H-Fluorene	10.280	3.4 J
24	203-64-5	4H-Cyclopenta[def]phenanthrene	12.430	4.3 J
25	192-97-2	Benzo[e]pyrene	16.900	5.4 J

**Total Tentatively Identified Concentration 270**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\121857.txt

# Form1

## ORGANICS SEMIVOLATILE REPORT

HC 0044

**Sample Number:** AB74448 **Matrix:** Soil  
**Client Id:** FRSB-09A **Initial Volume:** 30g  
**Data File:** FE1183 **Final Volume:** 1ml  
**Date Analyzed:** 11 Dec 2002 18:40 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02 **Percent Solids:** 88  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.38	U
95501	1,2-Dichlorobenzene	0.38	U
122667	1,2-Diphenylhydrazine	0.38	U
541731	1,3-Dichlorobenzene	0.38	U
106467	1,4-Dichlorobenzene	0.38	U
95954	2,4,5-Trichlorophenol	0.38	U
88062	2,4,6-Trichlorophenol	0.38	U
120832	2,4-Dichlorophenol	0.38	U
105679	2,4-Dimethylphenol	0.38	U
51285	2,4-Dinitrophenol	0.38	U
121142	2,4-Dinitrotoluene	0.38	U
606202	2,6-Dinitrotoluene	0.38	U
91587	2-Chloronaphthalene	0.38	U
95578	2-Chlorophenol	0.38	U
91576	2-Methylnaphthalene	0.38	U
95487	2-Methylphenol	0.38	U
88744	2-Nitroaniline	0.38	U
88755	2-Nitrophenol	0.38	U
106445	3&4-Methylphenol	0.38	U
91941	3,3'-Dichlorobenzidine	0.38	U
99092	3-Nitroaniline	0.38	U
534521	4,6-Dinitro-2-methylphenol	0.38	U
101553	4-Bromophenyl-phenylether	0.38	U
59507	4-Chloro-3-methylphenol	0.38	U
106478	4-Chloroaniline	0.38	U
7005723	4-Chlorophenyl-phenylether	0.38	U
100016	4-Nitroaniline	0.38	U
100027	4-Nitrophenol	0.38	U
83329	Acenaphthene	0.38	U
208968	Acenaphthylene	0.38	U
120127	Anthracene	0.38	U
92875	Benidine	0.76	U
56553	Benzo[a]anthracene	0.38	U
50328	Benzo[a]pyrene	0.38	U
205992	Benzo[b]fluoranthene	0.38	U
191242	Benzo[g,h,i]perylene	0.38	U
207089	Benzo[k]fluoranthene	0.38	U
111911	Bis(2-Chloroethoxy)methane	0.38	U
111444	Bis(2-Chloroethyl)Ether	0.38	U
108601	Bis(2-Chloroisopropyl)ether	0.38	U
117817	Bis(2-Ethylhexyl)phthalate	0.38	0.13 JB
85687	Butylbenzylphthalate	0.38	U
86748	Carbazole	0.38	U
218019	Chrysene	0.38	U
117840	Di-n-octylphthalate	0.38	U
84742	Di-n-butylphthalate	0.38	0.075 J
53703	Dibenzo[a,h]Anthracene	0.38	U
132649	Dibenzofuran	0.38	U
84662	Diethylphthalate	0.38	U
131113	Dimethylphthalate	0.38	U
206440	Fluoranthene	0.38	U
86737	Fluorene	0.38	U
118741	Hexachlorobenzene	0.38	U
87683	Hexachlorobutadiene	0.38	U
77474	Hexachlorocyclopentadiene	0.38	U
67721	Hexachloroethane	0.38	U
193395	Indeno[1,2,3-cd]pyrene	0.38	U
78591	Isophorone	0.38	U
621647	N-Nitroso-Di-N-Propylamine	0.38	U
62759	N-Nitrosodimethylamine	0.38	U
86306	N-Nitrosodiphenylamine	0.38	U
91203	Naphthalene	0.38	U
98953	Nitrobenzene	0.38	U
87865	Pentachlorophenol	0.38	U
85018	Phenanthrene	0.38	U
108952	Phenol	0.38	U
129000	Pyrene	0.38	U

**Total Target Concentration 0.21**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Formle/If**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0045

<b>Sample Number:</b> AB74448	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-09A	<b>Initial Volume:</b> 30g
<b>Data File:</b> FE1183	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 11 Dec 2002 18:40	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 88

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	1.910	0.49 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	2.480	40 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.190	6.9 J AB
4	-00-0	TRIS(ALLYLOXY)-S-TRIAZINE	8.590	0.42 J
5	301-02-0	9-Octadecenamide, (Z)-	11.140	1.0 J
6	301-02-0	9-Octadecenamide, (Z)-	12.740	0.42 J

**Total Tentatively Identified Concentration**      49

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\121857.txt



# Form1

## ORGANICS SEMIVOLATILE REPORT

HC 0046

**Sample Number:** AB74449 **Matrix:** Soil  
**Client Id:** FRSB-09B **Initial Volume:** 30g  
**Data File:** FC4423 **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 15:31 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02 **Percent Solids:** 80  
**Column:** Supelco 105 m volcol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.42	U
95501	1,2-Dichlorobenzene	0.42	U
122667	1,2-Diphenylhydrazine	0.42	U
541731	1,3-Dichlorobenzene	0.42	U
106467	1,4-Dichlorobenzene	0.42	U
95954	2,4,5-Trichlorophenol	0.42	U
88062	2,4,6-Trichlorophenol	0.42	U
120832	2,4-Dichlorophenol	0.42	U
105679	2,4-Dimethylphenol	0.42	U
51285	2,4-Dinitrophenol	0.42	U
121142	2,4-Dinitrotoluene	0.42	U
606202	2,6-Dinitrotoluene	0.42	U
91587	2-Chloronaphthalene	0.42	U
95578	2-Chlorophenol	0.42	U
91576	2-Methylnaphthalene	0.42	U
95487	2-Methylphenol	0.42	U
88744	2-Nitroaniline	0.42	U
88755	2-Nitrophenol	0.42	U
106445	3&4-Methylphenol	0.42	U
91941	3,3'-Dichlorobenzidine	0.42	U
99092	3-Nitroaniline	0.42	U
534521	4,6-Dinitro-2-methylphenol	0.42	U
101553	4-Bromophenyl-phenylether	0.42	U
59507	4-Chloro-3-methylphenol	0.42	U
106478	4-Chloroaniline	0.42	U
7005723	4-Chlorophenyl-phenylether	0.42	U
100016	4-Nitroaniline	0.42	U
100027	4-Nitrophenol	0.42	U
83329	Acenaphthene	0.42	U
208968	Acenaphthylene	0.42	U
120127	Anthracene	0.42	U
92875	Benzidine	0.83	U
56553	Benzo[a]anthracene	0.42	U
50328	Benzo[a]pyrene	0.42	U
205992	Benzo[b]fluoranthene	0.42	U
191242	Benzo[g,h,i]perylene	0.42	U
207089	Benzo[k]fluoranthene	0.42	U
111911	Bis(2-Chloroethoxy)methane	0.42	U
111444	Bis(2-Chloroethyl)Ether	0.42	U
108601	Bis(2-Chloroisopropyl)ether	0.42	U
117817	Bis(2-Ethylhexyl)phthalate	0.42	0.46 B
85687	Butylbenzylphthalate	0.42	U
86748	Carbazole	0.42	U
218019	Chrysene	0.42	U
117840	DI-n-octylphthalate	0.42	0.063 J
84742	Di-n-butylphthalate	0.42	0.14 J
53703	Dibenzo[a,h]Anthracene	0.42	U
132649	Dibenzofuran	0.42	U
84662	Diethylphthalate	0.42	U
131113	Dimethylphthalate	0.42	U
206440	Fluoranthene	0.42	U
86737	Fluorene	0.42	U
118741	Hexachlorobenzene	0.42	U
87683	Hexachlorobutadiene	0.42	U
77474	Hexachlorocyclopentadiene	0.42	U
67721	Hexachloroethane	0.42	U
193395	Indeno[1,2,3-cd]pyrene	0.42	U
78591	Isophorone	0.42	U
621647	N-Nitroso-Di-N-Propylamine	0.42	U
62759	N-Nitrosodimethylamine	0.42	U
86306	N-Nitrosodiphenylamine	0.42	U
91203	Naphthalene	0.42	U
98953	Nitrobenzene	0.42	U
87865	Pentachlorophenol	0.42	U
85018	Phenanthrene	0.42	U
108952	Phenol	0.42	U
129000	Pyrene	0.42	U

**Total Target Concentration 0.66**

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\121857.txt

**Formle/1f**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0047

<b>Sample Number:</b> AB74449	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-09B	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4423	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 15:31	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 80

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.400	0.86 J <i>B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	2.960	22 J <i>B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.470	7.6 J <i>AB</i>
4		unknown	11.430	0.56 J <i>B</i>
5		unknown	13.520	0.20 J
6		unknown	14.540	2.2 J
7		unknown	16.350	0.98 J

**Total Tentatively Identified Concentration**      34

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\121857.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0048

**Sample Number:** AB74450(MS:AB7      **Matrix:** Soil  
**Client Id:** FRSB-09B MS      **Initial Volume:** 30g  
**Data File:** FC4424      **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 15:57      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02      **Percent Solids:** 85  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.39	3.8
95501	1,2-Dichlorobenzene	0.39	U
122667	1,2-Diphenylhydrazine	0.39	U
541731	1,3-Dichlorobenzene	0.39	U
106467	1,4-Dichlorobenzene	0.39	3.4
95954	2,4,5-Trichlorophenol	0.39	U
88062	2,4,6-Trichlorophenol	0.39	U
120832	2,4-Dichlorophenol	0.39	U
105679	2,4-Dimethylphenol	0.39	U
51285	2,4-Dinitrophenol	0.39	U
121142	2,4-Dinitrotoluene	0.39	3.5
606202	2,6-Dinitrotoluene	0.39	U
91587	2-Chloronaphthalene	0.39	U
95578	2-Chlorophenol	0.39	5.3
91576	2-Methylnaphthalene	0.39	U
95487	2-Methylphenol	0.39	U
88744	2-Nitroaniline	0.39	U
88755	2-Nitrophenol	0.39	U
106445	3&4-Methylphenol	0.39	U
91941	3,3'-Dichlorobenzidine	0.39	U
99092	3-Nitroaniline	0.39	U
534521	4,6-Dinitro-2-methylphenol	0.39	U
101553	4-Bromophenyl-phenylether	0.39	U
59507	4-Chloro-3-methylphenol	0.39	6.3
106478	4-Chloroaniline	0.39	U
7005723	4-Chlorophenyl-phenylether	0.39	U
100016	4-Nitroaniline	0.39	U
100027	4-Nitrophenol	0.39	6.5
83329	Acenaphthene	0.39	3.4
208968	Acenaphthylene	0.39	U
120127	Anthracene	0.39	U
92875	Benzidine	0.78	U
56553	Benzo[a]anthracene	0.39	U
50328	Benzo[a]pyrene	0.39	U
205992	Benzo[b]fluoranthene	0.39	U
191242	Benzo[g,h,i]perylene	0.39	U
207089	Benzo[k]fluoranthene	0.39	U
111911	Bis(2-Chloroethoxy)methane	0.39	U
111444	Bis(2-Chloroethyl)Ether	0.39	U
108601	Bis(2-Chloroisopropyl)ether	0.39	U
117817	Bis(2-Ethylhexyl)phthalate	0.39	0.33 JB
85687	Butylbenzylphthalate	0.39	U
86748	Carbazole	0.39	U
218019	Chrysene	0.39	U
117840	DI-n-octylphthalate	0.39	0.047 J
84742	Di-n-butylphthalate	0.39	0.13 J
53703	Dibenzo[a,h]Anthracene	0.39	U
132649	Dibenzofuran	0.39	U
84662	Diethylphthalate	0.39	U
131113	Dimethylphthalate	0.39	U
206440	Fluoranthene	0.39	U
86737	Fluorene	0.39	U
118741	Hexachlorobenzene	0.39	U
87683	Hexachlorobutadiene	0.39	U
77474	Hexachlorocyclopentadiene	0.39	U
67721	Hexachloroethane	0.39	U
193395	Indeno[1,2,3-cd]pyrene	0.39	U
78591	Isophorone	0.39	U
621647	N-Nitroso-Di-N-Propylamine	0.39	4.0
62759	N-Nitrosodimethylamine	0.39	U
86306	N-Nitrosodiphenylamine	0.39	U
91203	Naphthalene	0.39	U
98953	Nitrobenzene	0.39	U
87865	Pentachlorophenol	0.39	6.3
85018	Phenanthrene	0.39	U
108952	Phenol	0.39	5.2
129000	Pyrene	0.39	3.5

**Total Target Concentration 52**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

**Formle/1f**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0049

<b>Sample Number:</b> AB74450(MS:AB7444	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-09B MS	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4424	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 15:57	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 85

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.390	0.28 J <i>B</i>
2	141-79-7	3-Penten-2-one, 4-methyl-	2.960	6.9 J <i>B</i>
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.470	2.3 J <i>AB</i>
4		unknown	11.430	0.52 J <i>B</i>
5	84-69-5	1,2-Benzenedicarboxylic acid, bis(2-meth	11.900	0.18 J
6	1120-07-6	Nonanamide	13.630	0.21 J
7		unknown	14.530	2.3 J
8		unknown	16.350	1.0 J

**Total Tentatively Identified Concentration** 14

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\121857.txt

**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0050

**Sample Number:** AB74451(MSD:AB) **Matrix:** Soil  
**Client Id:** FRSB-09B MSD **Initial Volume:** 30g  
**Data File:** FC4425 **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 16:22 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02 **Percent Solids:** 85  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.39	3.3
95501	1,2-Dichlorobenzene	0.39	U
122667	1,2-Diphenylhydrazine	0.39	U
541731	1,3-Dichlorobenzene	0.39	U
106467	1,4-Dichlorobenzene	0.39	3.1
95954	2,4,5-Trichlorophenol	0.39	U
88062	2,4,6-Trichlorophenol	0.39	U
120832	2,4-Dichlorophenol	0.39	U
105679	2,4-Dimethylphenol	0.39	U
51285	2,4-Dinitrophenol	0.39	U
121142	2,4-Dinitrotoluene	0.39	3.2
606202	2,6-Dinitrotoluene	0.39	U
91587	2-Chloronaphthalene	0.39	U
95578	2-Chlorophenol	0.39	5.0
91576	2-Methylnaphthalene	0.39	U
95487	2-Methylphenol	0.39	U
88744	2-Nitroaniline	0.39	U
88755	2-Nitrophenol	0.39	U
106445	3&4-Methylphenol	0.39	U
91941	3,3'-Dichlorobenzidine	0.39	U
99092	3-Nitroaniline	0.39	U
534521	4,6-Dinitro-2-methylphenol	0.39	U
101553	4-Bromophenyl-phenylether	0.39	U
59507	4-Chloro-3-methylphenol	0.39	5.6
106478	4-Chloroaniline	0.39	U
7005723	4-Chlorophenyl-phenylether	0.39	U
100016	4-Nitroaniline	0.39	U
100027	4-Nitrophenol	0.39	6.3
83329	Acenaphthene	0.39	3.0
208968	Acenaphthylene	0.39	U
120127	Anthracene	0.39	U
92875	Benzidine	0.78	U
56553	Benzo[a]anthracene	0.39	U
50328	Benzo[a]pyrene	0.39	U
205992	Benzo[b]fluoranthene	0.39	U
191242	Benzo[g,h,i]perylene	0.39	U
207089	Benzo[k]fluoranthene	0.39	U
111911	Bis(2-Chloroethoxy)methane	0.39	U
111444	Bis(2-Chloroethyl)Ether	0.39	U
108601	Bis(2-Chloroisopropyl)ether	0.39	U
117817	Bis(2-Ethylhexyl)phthalate	0.39	0.20 JB
85687	Butylbenzylphthalate	0.39	U
86748	Carbazole	0.39	U
218019	Chrysene	0.39	U
117840	DI-n-octylphthalate	0.39	U
84742	Di-n-butylphthalate	0.39	0.13 J
53703	Dibenzo[a,h]Anthracene	0.39	U
132649	Dibenzofuran	0.39	U
84662	Diethylphthalate	0.39	U
131113	Dimethylphthalate	0.39	U
206440	Fluoranthene	0.39	U
86737	Fluorene	0.39	U
118741	Hexachlorobenzene	0.39	U
87683	Hexachlorobutadiene	0.39	U
77474	Hexachlorocyclopentadiene	0.39	U
67721	Hexachloroethane	0.39	U
193395	Indeno[1,2,3-cd]pyrene	0.39	U
78591	Isophorone	0.39	U
621647	N-Nitroso-Di-N-Propylamine	0.39	3.9
62759	N-Nitrosodimethylamine	0.39	U
86306	N-Nitrosodiphenylamine	0.39	U
91203	Naphthalene	0.39	U
98953	Nitrobenzene	0.39	U
87865	Pentachlorophenol	0.39	5.3
85018	Phenanthrene	0.39	U
108952	Phenol	0.39	5.2
129000	Pyrene	0.39	3.0

**Total Target Concentration 47**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\121857.txt

**Formle/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0051

<b>Sample Number:</b> AB74451(MSD:AB744	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-09B MSD	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4425	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 16:22	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 85

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> mg/Kg
1		unknown	2.380	0.28 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	2.950	7.2 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.460	2.4 J $\alpha\beta$
4		unknown	11.430	0.43 J $\beta$
5	117-82-8	1,2-Benzenedicarboxylic acid, bis(2-meth	11.900	0.20 J
6	1120-07-6	Nonanamide	13.620	0.17 J
7		unknown	14.530	1.9 J
8	629-54-9	Hexadecanamide	15.460	0.16 J
9		unknown	16.340	0.75 J

**Total Tentatively Identified Concentration**      13

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\121857.txt

**Form1**  
ORGANICS PCB REPORT

HC 0052

**Sample Number:** AB74445      **Matrix:** Soil  
**Client Id:** FRTT-03      **Initial Volume:** 20g  
**Data File:** GC44640      **Final Volume:** 10ml  
**Date Analyzed:** 10 Dec 2002 22:45      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/02-12/09/02      **Percent Solids:** 63  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
12674112	Aroclor-1016	0.040	U
11104282	Aroclor-1221	0.040	U
11141165	Aroclor-1232	0.040	U
53469219	Aroclor-1242	0.040	U
12672296	Aroclor-1248	0.040	U
11097691	Aroclor-1254	0.040	U
11096825	Aroclor-1260	0.040	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
**ORGANICS PCB REPORT**

HC 0053

**Sample Number:** AB74447                      **Matrix:** Soil  
**Client Id:** FRSB-01B                      **Initial Volume:** 20g  
**Data File:** GC44641                      **Final Volume:** 10ml  
**Date Analyzed:** 10 Dec 2002 23:02                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/02-12/09/02                      **Percent Solids:** 85  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: mg/Kg )</i>
12674112	Aroclor-1016	0.029	U
11104282	Aroclor-1221	0.029	U
11141165	Aroclor-1232	0.029	U
53469219	Aroclor-1242	0.029	U
12672296	Aroclor-1248	0.029	U
11097691	Aroclor-1254	0.029	U
11096825	Aroclor-1260	0.029	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*



**Form1**  
**ORGANICS PCB REPORT**

HC 0054

**Sample Number:** AB74448      **Matrix:** Soil  
**Client Id:** FRSB-09A      **Initial Volume:** 20g  
**Data File:** GC44642      **Final Volume:** 10ml  
**Date Analyzed:** 10 Dec 2002 23:18      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/02-12/09/02      **Percent Solids:** 88  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
12674112	Aroclor-1016	0.028	U
11104282	Aroclor-1221	0.028	U
11141165	Aroclor-1232	0.028	U
53469219	Aroclor-1242	0.028	U
12672296	Aroclor-1248	0.028	U
11097691	Aroclor-1254	0.028	U
11096825	Aroclor-1260	0.028	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
ORGANICS PCB REPORT

HC 0055

**Sample Number:** AB74449      **Matrix:** Soil  
**Client Id:** FRSB-09B      **Initial Volume:** 30g  
**Data File:** GC44782      **Final Volume:** 10ml  
**Date Analyzed:** 16 Dec 2002 8:31      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/02-12/15/02      **Percent Solids:** 80  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
12674112	Aroclor-1016	0.021	U
11104282	Aroclor-1221	0.021	U
11141165	Aroclor-1232	0.021	U
53469219	Aroclor-1242	0.021	U
12672296	Aroclor-1248	0.021	U
11097691	Aroclor-1254	0.021	U
11096825	Aroclor-1260	0.021	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form I**  
**ORGANICS PCB REPORT**

HC 0056

**Sample Number:** AB74450(MS:AB7)      **Matrix:** Soil  
**Client Id:** FRSB-09B MS      **Initial Volume:** 30g  
**Data File:** GC44783      **Final Volume:** 10ml  
**Date Analyzed:** 16 Dec 2002 8:48      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/02-12/15/02      **Percent Solids:** 85  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: mg/Kg )</i>
12674112	Aroclor-1016	0.020	0.22
11104282	Aroclor-1221	0.020	U
11141165	Aroclor-1232	0.020	U
53469219	Aroclor-1242	0.020	U
12672296	Aroclor-1248	0.020	U
11097691	Aroclor-1254	0.020	U
11096825	Aroclor-1260	0.020	0.22

**Total Target Concentration 0.44**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
**ORGANICS PCB REPORT**

HC 0057

**Sample Number:** AB74451(MSD:AB)      **Matrix:** Soil  
**Client Id:** FRSB-09B MSD      **Initial Volume:** 30g  
**Data File:** GC44784      **Final Volume:** 10ml  
**Date Analyzed:** 16 Dec 2002 9:05      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/02-12/15/02      **Percent Solids:** 85  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: mg/Kg )</i>
12674112	Aroclor-1016	0.020	0.24
11104282	Aroclor-1221	0.020	U
11141165	Aroclor-1232	0.020	U
53469219	Aroclor-1242	0.020	U
12672296	Aroclor-1248	0.020	U
11097691	Aroclor-1254	0.020	U
11096825	Aroclor-1260	0.020	0.24

**Total Target Concentration 0.48**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
ORGANICS PESTICIDE REPORT

HC 0058

**Sample Number:** AB74445      **Matrix:** Soil  
**Client Id:** FRTT-03      **Initial Volume:** 20g  
**Data File:** GE0895      **Final Volume:** 10ml  
**Date Analyzed:** 13 Dec 2002 4:18      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/2002-12/09/02      **Percent Solids:** 63  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
309002	Aldrin	0.0079	U
319846	Alpha-BHC	0.0079	U
319857	Beta-BHC	0.0079	U
57749	Chlordane	0.016	U
319868	Delta-BHC	0.0079	U
60571	Dieldrin	0.0079	U
959988	Endosulfan I	0.0079	U
33213659	Endosulfan II	0.0079	U
1031078	Endosulfan Sulfate	0.0079	U
72208	Endrin	0.0079	U
7421934	Endrin Aldehyde	0.0079	U
53494705	Endrin Ketone	0.0079	0.029
58899	Gamma-BHC	0.0079	U
76448	Heptachlor	0.0079	U
1024573	Heptachlor Epoxide	0.0079	U
72435	Methoxychlor	0.0079	0.12
72548	P,P'-DDD	0.0079	U
72559	P,P'-DDE	0.0079	U
50293	P,P'-DDT	0.0079	U
8001352	Toxaphene	0.079	U

**Total Target Concentration 0.15**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form 1**  
ORGANICS PESTICIDE REPORT

HC 0059

**Sample Number:** AB74447      **Matrix:** Soil  
**Client Id:** FRSB-01B      **Initial Volume:** 20g  
**Data File:** GE0896      **Final Volume:** 10ml  
**Date Analyzed:** 13 Dec 2002 4:35      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/2002-12/09/02      **Percent Solids:** 85  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
309002	Aldrin	0.0059	U
319846	Alpha-BHC	0.0059	U
319857	Beta-BHC	0.0059	U
57749	Chlordane	0.012	U
319868	Delta-BHC	0.0059	U
60571	Dieldrin	0.0059	U
959988	Endosulfan I	0.0059	U
33213659	Endosulfan II	0.0059	U
1031078	Endosulfan Sulfate	0.0059	U
72208	Endrin	0.0059	U
7421934	Endrin Aldehyde	0.0059	0.016
53494705	Endrin Ketone	0.0059	0.015
58899	Gamma-BHC	0.0059	U
76448	Heptachlor	0.0059	U
1024573	Heptachlor Epoxide	0.0059	U
72435	Methoxychlor	0.0059	U
72548	P,P'-DDD	0.0059	U
72559	P,P'-DDE	0.0059	U
50293	P,P'-DDT	0.0059	0.024
8001352	Toxaphene	0.059	U

**Total Target Concentration 0.055**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

**Form 1**  
ORGANICS PESTICIDE REPORT

HC 0060

**Sample Number:** AB74448 **Matrix:** Soil  
**Client Id:** FRSB-09A **Initial Volume:** 20g  
**Data File:** GE0897 **Final Volume:** 10ml  
**Date Analyzed:** 13 Dec 2002 4:51 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/2002-12/09/02 **Percent Solids:** 88  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
309002	Aldrin	0.0057	U
319846	Alpha-BHC	0.0057	U
319857	Beta-BHC	0.0057	U
57749	Chlordane	0.011	U
319868	Delta-BHC	0.0057	U
60571	Dieldrin	0.0057	U
959988	Endosulfan I	0.0057	U
33213659	Endosulfan II	0.0057	U
1031078	Endosulfan Sulfate	0.0057	U
72208	Endrin	0.0057	U
7421934	Endrin Aldehyde	0.0057	U
53494705	Endrin Ketone	0.0057	U
58899	Gamma-BHC	0.0057	U
76448	Heptachlor	0.0057	U
1024573	Heptachlor Epoxide	0.0057	U
72435	Methoxychlor	0.0057	U
72548	P,P'-DDD	0.0057	U
72559	P,P'-DDE	0.0057	U
50293	P,P'-DDT	0.0057	U
8001352	Toxaphene	0.057	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form I**  
**ORGANICS PESTICIDE REPORT**

HC 0061

**Sample Number:** AB74449                      **Matrix:** Soil  
**Client Id:** FRSB-09B                      **Initial Volume:** 30g  
**Data File:** GE0974                      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 1:06                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/2002-12/15/02                      **Percent Solids:** 80  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
309002	Aldrin	0.0042	U
319846	Alpha-BHC	0.0042	U
319857	Beta-BHC	0.0042	U
57749	Chlordane	0.0083	U
319868	Delta-BHC	0.0042	U
60571	Dieldrin	0.0042	U
959988	Endosulfan I	0.0042	U
33213659	Endosulfan II	0.0042	U
1031078	Endosulfan Sulfate	0.0042	U
72208	Endrin	0.0042	U
7421934	Endrin Aldehyde	0.0042	U
53494705	Endrin Ketone	0.0042	U
58899	Gamma-BHC	0.0042	U
76448	Heptachlor	0.0042	U
1024573	Heptachlor Epoxide	0.0042	U
72435	Methoxychlor	0.0042	U
72548	P,P'-DDD	0.0042	U
72559	P,P'-DDE	0.0042	U
50293	P,P'-DDT	0.0042	U
8001352	Toxaphene	0.042	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*



**Form1**  
**ORGANICS PESTICIDE REPORT**

HC 0062

**Sample Number:** AB74450(MS:AB7                      **Matrix:** Soil  
**Client Id:** FRSB-09B MS                      **Initial Volume:** 30g  
**Data File:** GE0975                      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 1:22                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/2002-12/15/02                      **Percent Solids:** 85  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
309002	Aldrin	0.0039	0.033
319846	Alpha-BHC	0.0039	0.033
319857	Beta-BHC	0.0039	0.031
57749	Chlordane	0.0078	U
319868	Delta-BHC	0.0039	0.034
60571	Dieldrin	0.0039	0.032
959988	Endosulfan I	0.0039	0.030
33213659	Endosulfan II	0.0039	0.033
1031078	Endosulfan Sulfate	0.0039	0.035
72208	Endrin	0.0039	0.032
7421934	Endrin Aldehyde	0.0039	0.029
53494705	Endrin Ketone	0.0039	0.036
58899	Gamma-BHC	0.0039	0.033
76448	Heptachlor	0.0039	0.031
1024573	Heptachlor Epoxide	0.0039	0.031
72435	Methoxychlor	0.0039	0.038
72548	P,P'-DDD	0.0039	0.038
72559	P,P'-DDE	0.0039	0.035
50293	P,P'-DDT	0.0039	0.036
8001352	Toxaphene	0.039	U

**Total Target Concentration 0.6**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
**ORGANICS PESTICIDE REPORT**

HC 0063

**Sample Number:** AB74451(MSD:AB)      **Matrix:** Soil  
**Client Id:** FRSB-09B MSD      **Initial Volume:** 30g  
**Data File:** GE0976      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 1:39      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/2002-12/15/02      **Percent Solids:** 85  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
309002	Aldrin	0.0039	0.031
319846	Alpha-BHC	0.0039	0.031
319857	Beta-BHC	0.0039	0.030
57749	Chlordane	0.0078	U
319868	Delta-BHC	0.0039	0.033
60571	Dieldrin	0.0039	0.030
959988	Endosulfan I	0.0039	0.028
33213659	Endosulfan II	0.0039	0.032
1031078	Endosulfan Sulfate	0.0039	0.034
72208	Endrin	0.0039	0.030
7421934	Endrin Aldehyde	0.0039	0.028
53494705	Endrin Ketone	0.0039	0.035
58899	Gamma-BHC	0.0039	0.031
76448	Heptachlor	0.0039	0.030
1024573	Heptachlor Epoxide	0.0039	0.031
72435	Methoxychlor	0.0039	0.037
72548	P,P'-DDD	0.0039	0.038
72559	P,P'-DDE	0.0039	0.034
50293	P,P'-DDT	0.0039	0.034
8001352	Toxaphene	0.039	U

**Total Target Concentration 0.58**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74441  
Client Id: FRSB-04A  
Matrix: SOIL

% Solid: 88  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.3	ND	100	PEICP1	12/13/02	4382	S4382a	26
7440-39-3	Barium	11	ND	100	PEICP1	12/13/02	4382	S4382a	26
7440-43-9	Cadmium	0.68	ND	100	PEICP1	12/13/02	4382	S4382a	26
7440-47-3	Chromium	5.7	7.4	100	PEICP1	12/13/02	4382	S4382a	26
7439-92-1	Lead	5.7	ND	100	PEICP1	12/13/02	4382	S4382a	26
7439-97-6	Mercury	0.16	ND	167	HGCV1	12/09/02	4382	H4382S	18
7782-49-2	Selenium	2.3	ND	100	PEICP1	12/13/02	4382	S4382a	26
7440-22-4	Silver	2.8	ND	100	PEICP1	12/13/02	4382	S4382a	26

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

Me9  
12/16/02

# Form 1

## Inorganic Analysis Data Sheet

Sample ID: AB74442  
 Client Id: FRSB-04B  
 Matrix: SOIL

% Solid: 81  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.5	ND	100	PEICP1	12/13/02	4382	S4382a	27
7440-39-3	Barium	12	ND	100	PEICP1	12/13/02	4382	S4382a	27
7440-43-9	Cadmium	0.74	ND	100	PEICP1	12/13/02	4382	S4382a	27
7440-47-3	Chromium	6.2	ND	100	PEICP1	12/13/02	4382	S4382a	27
7439-92-1	Lead	6.2	ND	100	PEICP1	12/13/02	4382	S4382a	27
7439-97-6	Mercury	0.18	ND	167	HGCV1	12/09/02	4382	H4382S	19
7782-49-2	Selenium	2.5	ND	100	PEICP1	12/13/02	4382	S4382a	27
7440-22-4	Silver	3.1	ND	100	PEICP1	12/13/02	4382	S4382a	27

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature/initials*

Form 1  
Inorganic Analysis Data Sheet

Sample ID: AB74443  
Client Id: FRTT-01  
Matrix: SOIL

% Solid: 87  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.3	ND	100	PEICP1	12/13/02	4382	S4382a	28
7440-39-3	Barium	11	36	100	PEICP1	12/13/02	4382	S4382a	28
7440-43-9	Cadmium	0.69	ND	100	PEICP1	12/13/02	4382	S4382a	28
7440-47-3	Chromium	5.7	13	100	PEICP1	12/13/02	4382	S4382a	28
7439-92-1	Lead	5.7	11	100	PEICP1	12/13/02	4382	S4382a	28
7439-97-6	Mercury	0.16	ND	167	HGCV1	12/09/02	4382	H4382S	22
7782-49-2	Selenium	2.3	ND	100	PEICP1	12/13/02	4382	S4382a	28
7440-22-4	Silver	2.9	ND	100	PEICP1	12/13/02	4382	S4382a	28

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

729  
12/18/06

# Form 1

## Inorganic Analysis Data Sheet

Sample ID: AB74444

% Solid: 83

Client Id: FRTT-02

Units: mg/Kg

Matrix: SOIL

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.4	27	100	PEICP1	12/13/02	4382	S4382a	29
7440-39-3	Barium	12	3600	100	PEICP1	12/13/02	4382	S4382a	29
7440-43-9	Cadmium	0.72	26	100	PEICP1	12/13/02	4382	S4382a	29
7440-47-3	Chromium	6.0	88	100	PEICP1	12/13/02	4382	S4382a	29
7439-92-1	Lead	150	71000	2500	PEICP1	12/13/02	4382	S4382C	10
7439-97-6	Mercury	0.17	2.9	167	HGCV1	12/09/02	4382	H4382S	23
7782-49-2	Selenium	2.4	6.7	100	PEICP1	12/13/02	4382	S4382a	29
7440-22-4	Silver	3.0	43	100	PEICP1	12/13/02	4382	S4382a	29

## Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74445  
 Client Id: FRTT-03  
 Matrix: SOIL

% Solid: 63  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	320	12000	100	ICPRAD	12/13/02	4382	S4382B	22
7440-36-0	Antimony	3.2	6.6	100	PEICP1	12/13/02	4382	S4382a	30
7440-38-2	Arsenic	3.2	21	100	PEICP1	12/13/02	4382	S4382a	30
7440-39-3	Barium	16	540	100	PEICP1	12/13/02	4382	S4382a	30
7440-41-7	Beryllium	0.95	ND	100	PEICP1	12/13/02	4382	S4382a	30
7440-43-9	Cadmium	0.95	2.3	100	PEICP1	12/13/02	4382	S4382a	30
7440-70-2	Calcium	1600	5600	100	ICPRAD	12/13/02	4382	S4382B	22
7440-47-3	Chromium	7.9	32	100	PEICP1	12/13/02	4382	S4382a	30
7440-48-4	Cobalt	4.0	9.1	100	PEICP1	12/13/02	4382	S4382a	30
7440-50-8	Copper	7.9	240	100	PEICP1	12/13/02	4382	S4382C	11
7439-89-6	Iron	320	31000	100	ICPRAD	12/13/02	4382	S4382B	22
7439-92-1	Lead	7.9	1600	100	PEICP1	12/13/02	4382	S4382a	30
7439-95-4	Magnesium	790	1800	100	ICPRAD	12/13/02	4382	S4382B	22
7439-96-5	Manganese	16	240	100	PEICP1	12/13/02	4382	S4382a	30
7439-97-6	Mercury	0.23	1.6	167	HGCV1	12/09/02	4382	H4382S	24
7440-02-0	Nickel	7.9	28	100	PEICP1	12/13/02	4382	S4382a	30
7440-09-7	Potassium	790	ND	100	ICPRAD	12/13/02	4382	S4382B	22
7782-49-2	Selenium	3.2	8.6	100	PEICP1	12/13/02	4382	S4382a	30
7440-22-4	Silver	4.0	ND	100	PEICP1	12/13/02	4382	S4382a	30
7440-23-5	Sodium	790	ND	100	ICPRAD	12/13/02	4382	S4382B	22
7440-28-0	Thallium	1.9	ND	100	PEICP1	12/13/02	4382	S4382a	30
7440-62-2	Vanadium	16	44	100	PEICP1	12/13/02	4382	S4382a	30
7440-66-6	Zinc	16	1100	100	PEICP1	12/13/02	4382	S4382a	30

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature*  
12/16/02

Form 1  
Inorganic Analysis Data Sheet

Sample ID: AB74446  
Client Id: FRSB-01A  
Matrix: SOIL

% Solid: 92  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	ND	100	PEICP1	12/13/02	4382	S4382a	31
7440-39-3	Barium	11	59	100	PEICP1	12/13/02	4382	S4382a	31
7440-43-9	Cadmium	0.65	ND	100	PEICP1	12/13/02	4382	S4382a	31
7440-47-3	Chromium	5.4	6.0	100	PEICP1	12/13/02	4382	S4382a	31
7439-92-1	Lead	5.4	210	100	PEICP1	12/13/02	4382	S4382a	31
7439-97-6	Mercury	0.15	ND	167	HGCV1	12/09/02	4382	H4382S	25
7782-49-2	Selenium	2.2	ND	100	PEICP1	12/13/02	4382	S4382a	31
7440-22-4	Silver	2.7	ND	100	PEICP1	12/13/02	4382	S4382a	31

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

268  
12/13/02



# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74447  
 Client Id: FRSB-01B  
 Matrix: SOIL

% Solid: 85  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	240	2000	100	ICPRAD	12/13/02	4382	S4382B	23
7440-36-0	Antimony	2.4	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-38-2	Arsenic	2.4	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-39-3	Barium	12	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-41-7	Beryllium	0.71	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-43-9	Cadmium	0.71	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-70-2	Calcium	1200	ND	100	ICPRAD	12/13/02	4382	S4382B	23
7440-47-3	Chromium	5.9	8.1	100	PEICP1	12/13/02	4382	S4382a	32
7440-48-4	Cobalt	2.9	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-50-8	Copper	5.9	ND	100	PEICP1	12/13/02	4382	S4382C	12
7439-89-6	Iron	240	6300	100	ICPRAD	12/13/02	4382	S4382B	23
7439-92-1	Lead	5.9	14	100	PEICP1	12/13/02	4382	S4382a	32
7439-95-4	Magnesium	590	ND	100	ICPRAD	12/13/02	4382	S4382B	23
7439-96-5	Manganese	12	24	100	PEICP1	12/13/02	4382	S4382a	32
7439-97-6	Mercury	0.17	ND	167	HGCV1	12/09/02	4382	H4382S	26
7440-02-0	Nickel	5.9	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-09-7	Potassium	590	ND	100	ICPRAD	12/13/02	4382	S4382B	23
7782-49-2	Selenium	2.4	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-22-4	Silver	2.9	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-23-5	Sodium	590	ND	100	ICPRAD	12/13/02	4382	S4382B	23
7440-28-0	Thallium	1.4	ND	100	PEICP1	12/13/02	4382	S4382a	32
7440-62-2	Vanadium	12	12	100	PEICP1	12/13/02	4382	S4382a	32
7440-66-6	Zinc	12	ND	100	PEICP1	12/13/02	4382	S4382a	32

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

7/10/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74448  
 Client Id: FRSB-09A  
 Matrix: SOIL

% Solid: 88  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	230	450	100	ICPRAD	12/13/02	4382	S4382B	24
7440-36-0	Antimony	2.3	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-38-2	Arsenic	2.3	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-39-3	Barium	11	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-41-7	Beryllium	0.68	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-43-9	Cadmium	0.68	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-70-2	Calcium	1100	ND	100	ICPRAD	12/13/02	4382	S4382B	24
7440-47-3	Chromium	5.7	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-48-4	Cobalt	2.8	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-50-8	Copper	5.7	ND	100	PEICP1	12/13/02	4382	S4382C	13
7439-89-6	Iron	230	1200	100	ICPRAD	12/13/02	4382	S4382B	24
7439-92-1	Lead	5.7	ND	100	PEICP1	12/13/02	4382	S4382a	33
7439-95-4	Magnesium	570	ND	100	ICPRAD	12/13/02	4382	S4382B	24
7439-96-5	Manganese	11	ND	100	PEICP1	12/13/02	4382	S4382a	33
7439-97-6	Mercury	0.16	ND	167	HGCV1	12/09/02	4382	H4382S	27
7440-02-0	Nickel	5.7	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-09-7	Potassium	570	ND	100	ICPRAD	12/13/02	4382	S4382B	24
7782-49-2	Selenium	2.3	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-22-4	Silver	2.8	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-23-5	Sodium	570	ND	100	ICPRAD	12/13/02	4382	S4382B	24
7440-28-0	Thallium	1.4	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-62-2	Vanadium	11	ND	100	PEICP1	12/13/02	4382	S4382a	33
7440-66-6	Zinc	11	28	100	PEICP1	12/13/02	4382	S4382a	33

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*ML*  
11/11

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74449  
Client Id: FRSB-09B  
Matrix: SOIL

% Solid: 80  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.5	ND	100	PEICP1	12/13/02	4382	S4382a	13
7440-39-3	Barium	12	ND	100	PEICP1	12/13/02	4382	S4382a	13
7440-43-9	Cadmium	0.75	ND	100	PEICP1	12/13/02	4382	S4382a	13
7440-47-3	Chromium	6.2	ND	100	PEICP1	12/13/02	4382	S4382a	13
7439-92-1	Lead	6.2	ND	100	PEICP1	12/13/02	4382	S4382a	13
7439-97-6	Mercury	0.18	ND	167	HGCV1	12/09/02	4382	H4382S	13
7782-49-2	Selenium	2.5	ND	100	PEICP1	12/13/02	4382	S4382a	13
7440-22-4	Silver	3.1	ND	100	PEICP1	12/13/02	4382	S4382a	13

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

7/16/02  
m1612

Form 1  
Inorganic Analysis Data Sheet

Sample ID: AB74450  
Client Id: FRSB-09B MS  
Matrix: SOIL

% Solid: 85  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.4	63	100	PEICP1	12/13/02	4382	S4382a	15
7440-39-3	Barium	12	63	100	PEICP1	12/13/02	4382	S4382a	15
7440-43-9	Cadmium	0.71	56	100	PEICP1	12/13/02	4382	S4382a	15
7440-47-3	Chromium	5.9	67	100	PEICP1	12/13/02	4382	S4382a	15
7439-92-1	Lead	5.9	59	100	PEICP1	12/13/02	4382	S4382a	15
7439-97-6	Mercury	0.17	2.1	167	HGCV1	12/09/02	4382	H4382S	15
7782-49-2	Selenium	2.4	55	100	PEICP1	12/13/02	4382	S4382a	15
7440-22-4	Silver	2.9	56	100	PEICP1	12/13/02	4382	S4382a	15

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature*  
11/16

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74451  
 Client Id: FRSB-09B MSD  
 Matrix: SOIL

% Solid: 85  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.4	68	100	PEICP1	12/13/02	4382	S4382a	16
7440-39-3	Barium	12	74	100	PEICP1	12/13/02	4382	S4382a	16
7440-43-9	Cadmium	0.71	56	100	PEICP1	12/13/02	4382	S4382a	16
7440-47-3	Chromium	5.9	65	100	PEICP1	12/13/02	4382	S4382a	16
7439-92-1	Lead	5.9	62	100	PEICP1	12/13/02	4382	S4382a	16
7439-97-6	Mercury	0.17	2.1	167	HGCV1	12/09/02	4382	H4382S	16
7782-49-2	Selenium	2.4	55	100	PEICP1	12/13/02	4382	S4382a	16
7440-22-4	Silver	2.9	57	100	PEICP1	12/13/02	4382	S4382a	16

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

## Veritech Wet Chem Form 1 Summary

Lab #: AB74441

Lab #: AB74441

Sample Matrix: Soil

Sample ID: FRSB-04A

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	88	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.28	1	12/18/02	

Lab #: AB74442

Sample Matrix: Soil

Sample ID: FRSB-04B

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	81	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.31	1	12/18/02	

Lab #: AB74443

Sample Matrix: Soil

Sample ID: FRTT-01

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	87	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.29	1	12/18/02	

Lab #: AB74444

Sample Matrix: Soil

Sample ID: FRTT-02

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	83	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.3	1	12/18/02	

Lab #: AB74445

Sample Matrix: Soil

Sample ID: FRTT-03

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	63	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	0.61	mg/kg	0.4	1	12/18/02	

## Veritech Wet Chem Form 1 Summary

Lab #: AB74446

Lab #: AB74446

Sample Matrix: Soil

Sample ID: FRSB-01A

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	92	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.27	1	12/18/02	

Lab #: AB74447

Sample Matrix: Soil

Sample ID: FRSB-01B

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	85	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.29	1	12/18/02	

Lab #: AB74448

Sample Matrix: Soil

Sample ID: FRSB-09A

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	88	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.28	1	12/18/02	

Lab #: AB74449

Sample Matrix: Soil

Sample ID: FRSB-09B

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G			Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
% Solids	80	Percent		1	12/9/02	

Test Group Name:		Cyanide (Soil/Waste)			Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed	
Cyanide	ND	mg/kg	0.31	1	12/18/02	

Lab #: AB74450

Sample Matrix: Soil

Sample ID: FRSB-09B MS

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G		Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	85	Percen		1	12/9/02

Test Group Name:		Cyanide (Soil/Waste)		Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	5.2	mg/kg	0.29	1	12/18/02

# Veritech Wet Chem Form 1 Summary

Lab #: AB74451

Lab #: AB74451

Sample Matrix: Soil

Sample ID: FRSB-09B MSD

Date Received: 12/6/02

Test Group Name:		% Solids SM2540G		Date Prepared:	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	85	Percent		1	12/9/02
Test Group Name:		Cyanide (Soil/Waste)		Date Prepared: 12/18/02	
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	5.2	mg/kg	0.29	1	12/18/02



**Hampton-Clarke, Inc.**  
**veritech laboratories**

175 Route 46 West, Unit D  
Fairfield, NJ 07004  
(973) 244-9770  
Federal ID: 222679402

HC  
0001

**Paulus, Sokolowski & Sartor, Inc.**

**Format: NYDOH-CatB**  
**Project: Far Rockaway Former**  
**PO Number: 2522-006-084**

Samples submitted on: 12/6/02

AB74453  
AB74454  
AB74455

**Date: 1/3/03**  
**HCI Project: 12071518**

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

\_\_\_\_\_  
Robin Cousineau - Quality Assurance Director

Or

  
Stanley Gilewicz - Laboratory Director

**CT #: PH-0671   MA #: NJ386   NJ #: 14622   NY #: 11408   PA #: 68-463**

## SDG Narrative

## SDG Narrative

HC 0003

Project: PSS  
Job: Far Rockaway Former MGP

Hampton-Clarke, Inc. (HCI) received the following PSS samples on December 6, 2002:

<u>PSS #</u>	<u>HCI #</u>	<u>Type</u>	<u>Analysis</u>
FB120402	AB74453	Aqueous	Vo8260+10, BN8270+25, PCB-8082, Pesticides-8081, Metals-6010 (TAL), Mercury-7471A, Cyanide-9010
FB120502	AB74454	Aqueous	Vo8260+15, BN8270+15, Metals-6010 (RCRA), Mercury-7471A, Cyanide-9010
WTB120402	AB74455	Aqueous	Vo8260+15

Problems associated with these analyses are as follows:

### Volatiles:

Methylene chloride was recovered in samples AB74453 and AB74454 as a result of possible laboratory contamination.

There were no other problems associated with this analysis.

### Semi-Volatiles:

Phthalates were recovered in method blank WMB1754 and in samples AB74453 and AB74454 as a result of possible laboratory contamination.

The MSD was recovered below QC criteria for 1,4-Dichlorobenzene (27%). The RPD between the MS and MSD was above QC criteria for 1,4-Dichlorobenzene (87%). The MS and MBS met all QC criteria for 1,4-Dichlorobenzene.

There were no other problems associated with this analysis.

### PCBs:

There were no problems associated with this analysis.

### Pesticides:

There were no problems associated with this analysis.

### Metals:

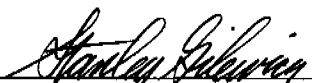
The serial dilution was recovered above QC criteria for Mg (25%) and Mn (16%).

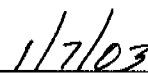
There were no other problems associated with this analysis.

### Wet Chemistry:

There were no problems associated with this analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

  
Stanley Gilewicz, Laboratory Director

  
Date

## Data Package Summary Forms

**Form1**  
ORGANICS VOLATILE REPORT

HC 0006

**Sample Number:** AB74453      **Matrix:** Water  
**Client Id:** FB120402      **Initial Volume:** 5ml  
**Data File:** FD5125      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 12:53      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	1.2 J
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 1.2**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\40401.txt

**Formle/1f**  
**ORGANICS VOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0007

<b>Sample Number:</b> AB74453	<b>Matrix:</b> Water
<b>Client Id:</b> FB120402	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FD5125	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 12:53	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 0

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration ug/L</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\40401.txt

**Form 1**  
ORGANICS VOLATILE REPORT

HC 0008

**Sample Number:** AB74454      **Matrix:** Water  
**Client Id:** FB120502      **Initial Volume:** 5ml  
**Data File:** FD5126      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 13:17      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	1.3 J
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 1.3**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\41621.txt



**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0009

<b>Sample Number:</b> AB74454	<b>Matrix:</b> Water
<b>Client Id:</b> FB120502	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FD5126	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 13:17	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 0

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration ug/L</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\41621.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0010

**Sample Number:** AB74455 **Matrix:** Water  
**Client Id:** WTB120402 **Initial Volume:** 5ml  
**Data File:** FD5124 **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 12:29 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\41621.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0011

<b>Sample Number:</b> AB74455	<b>Matrix:</b> Water
<b>Client Id:</b> WTB120402	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FD5124	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 12:29	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 0

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration ug/L</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\41621.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0012

**Sample Number:** AB74453

**Matrix:** Water

**Client Id:** FB120402

**Initial Volume:** 1000ml

**Data File:** FE1132

**Final Volume:** 1ml

**Date Analyzed:** 10 Dec 2002 17:00

**Dilution Factor:** 1

**Date Received/Extracted:** 12/6/02-12/9/02

**Percent Solids:** 0

**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
95954	2,4,5-Trichlorophenol	10	U
88062	2,4,6-Trichlorophenol	10	U
120832	2,4-Dichlorophenol	10	U
105679	2,4-Dimethylphenol	10	U
51285	2,4-Dinitrophenol	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
95578	2-Chlorophenol	10	U
91576	2-Methylnaphthalene	10	U
95487	2-Methylphenol	10	U
88744	2-Nitroaniline	10	U
88755	2-Nitrophenol	10	U
106445	3&4-Methylphenol	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
534521	4,6-Dinitro-2-methylphenol	10	U
101553	4-Bromophenyl-phenylether	10	U
59507	4-Chloro-3-methylphenol	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
100027	4-Nitrophenol	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benzidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	3.4 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	2.5 JB
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	U
98953	Nitrobenzene	10	U
87865	Pentachlorophenol	10	U
85018	Phenanthrene	10	U
108952	Phenol	10	U
129000	Pyrene	10	U

**Total Target Concentration 5.9**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\113034.txt

**Formle/If**  
ORGANICS SEMIVOLATILE REPORT  
**Tentatively Identified Compounds**

HC 0013

<b>Sample Number:</b> AB74453	<b>Matrix:</b> Water
<b>Client Id:</b> FB120402	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FE1132	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 17:00	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		unknown	8.600	11 J $\beta$
2	301-02-0	9-Octadecenamide, (Z)-	11.140	6.6 J $\beta$
3	301-02-0	9-Octadecenamide, (Z)-	12.740	4.6 J $\beta$

**Total Tentatively Identified Concentration**      22

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\113034.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0014

**Sample Number:** AB74454 **Matrix:** Water  
**Client Id:** FB120502 **Initial Volume:** 1000ml  
**Data File:** FE1134 **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 17:42 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02 **Percent Solids:** 0  
**Column:** Supelco 105 m vocal col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L)
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
91576	2-Methylnaphthalene	10	U
88744	2-Nitroaniline	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
101553	4-Bromophenyl-phenylether	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benzidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	2.2 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	4.4 JB
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	U
98953	Nitrobenzene	10	U
85018	Phenanthrene	10	U
129000	Pyrene	10	U

**Total Target Concentration 6.6**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form 1e/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0015

<b>Sample Number:</b> AB74454	<b>Matrix:</b> Water
<b>Client Id:</b> FB120502	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FE1134	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 17:42	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		unknown	8.600	13 J B
2	301-02-0	9-Octadecenamide, (Z)-	11.140	5.5 J B
3	301-02-0	9-Octadecenamide, (Z)-	12.750	4.0 J B

**Total Tentatively Identified Concentration**      23

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\113631.txt

**Form1**  
ORGANICS PCB REPORT

HC 0016

**Sample Number:** AB74453                      **Matrix:** Water  
**Client Id:** FB120402                      **Initial Volume:** 1000ml  
**Data File:** GC44631                      **Final Volume:** 10ml  
**Date Analyzed:** 10 Dec 2002 20:17                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/02-12/09/02                      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
12674112	Aroclor-1016	0.50	U
11104282	Aroclor-1221	0.50	U
11141165	Aroclor-1232	0.50	U
53469219	Aroclor-1242	0.50	U
12672296	Aroclor-1248	0.50	U
11097691	Aroclor-1254	0.50	U
11096825	Aroclor-1260	0.50	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File:** h:\import\42535.txt



**Form1**  
**ORGANICS PESTICIDE REPORT**

HC 0017

**Sample Number:** AB74453                      **Matrix:** Water  
**Client Id:** FB120402                      **Initial Volume:** 1000ml  
**Data File:** GE0775                      **Final Volume:** 10ml  
**Date Analyzed:** 11 Dec 2002 2:57                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/7/2002-12/09/02                      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
309002	Aldrin	0.10	U
319846	Alpha-BHC	0.10	U
319857	Beta-BHC	0.10	U
57749	Chlordane	0.20	U
319868	Delta-BHC	0.10	U
60571	Dieldrin	0.10	U
959988	Endosulfan I	0.10	U
33213659	Endosulfan II	0.10	U
1031078	Endosulfan Sulfate	0.10	U
72208	Endrin	0.10	U
7421934	Endrin Aldehyde	0.10	U
53494705	Endrin Ketone	0.10	U
58899	Gamma-BHC	0.10	U
76448	Heptachlor	0.10	U
1024573	Heptachlor Epoxide	0.10	U
72435	Methoxychlor	0.10	U
72548	P,P'-DDD	0.10	U
72559	P,P'-DDE	0.10	U
50293	P,P'-DDT	0.10	U
8001352	Toxaphene	1.0	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74453  
 Client Id: FB120402  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	180	ND	1	PEICP1	12/18/02	4393	W4393b	23
7440-36-0	Antimony	15	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-39-3	Barium	50	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-41-7	Beryllium	4.0	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-70-2	Calcium	2000	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-48-4	Cobalt	20	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-50-8	Copper	50	ND	1	PEICP1	12/17/02	4393	W4393A	31
7439-89-6	Iron	280	ND	1	PEICP1	12/17/02	4393	W4393A	31
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	31
7439-95-4	Magnesium	2000	ND	1	PEICP1	12/17/02	4393	W4393A	31
7439-96-5	Manganese	40	ND	1	PEICP1	12/17/02	4393	W4393A	31
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	27
7440-02-0	Nickel	50	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-09-7	Potassium	5000	ND	1	ICPRAD	12/18/02	4393	s4394b	39
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-23-5	Sodium	5000	ND	1	ICPRAD	12/18/02	4393	s4394b	39
7440-28-0	Thallium	10	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-62-2	Vanadium	50	ND	1	PEICP1	12/17/02	4393	W4393A	31
7440-66-6	Zinc	50	ND	1	PEICP1	12/17/02	4393	W4393A	31

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

MD  
12/18/02

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74454  
Client Id: FB120502  
Matrix: AQUEOUS

% Solid: 0  
Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	32
7440-39-3	Barium	50	ND	1	PEICP1	12/17/02	4393	W4393A	32
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	32
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	32
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	32
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	28
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	32
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	32

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

7/2/02  
12/19/02

# Veritech Wet Chem Form 1 Summary

Lab #: AB74453

Lab #: AB74453

Sample ID: FB120402

Sample Matrix: Aqueous

Date Received: 12/6/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/16/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/16/02

Lab #: AB74454

Sample Matrix: Aqueous

Sample ID: FB120502

Date Received: 12/6/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/16/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/16/02

**Hampton-Clarke, Inc.**  
**veritech laboratories**

175 Route 46 West, Unit D  
Fairfield, NJ 07004  
(973) 244-9770  
Federal ID: 222679402

HC 0004

**Paulus, Sokolowski & Sartor, Inc.**

**Format: NYDOH-CatB**

**Project: Far Rockaway Former**

**PO Number: 2522-006-084**

Samples submitted on: 12/6/02

AB74404  
AB74405  
AB74406  
AB74407

**Date: 1/3/03**

**HCI Project: 12071328**

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

\_\_\_\_\_  
Robin Cousineau - Quality Assurance Director

Or

  
Stanley Gilewicz - Laboratory Director

**CT #: PH-0671   MA #: NJ386   NJ #: 14622   NY #: 11408   PA #: 68-463**

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## SDG Narrative



## SDG Narrative

HC  
0006

Project: PSS  
Job: Far Rockaway Former MGP

Hampton-Clarke, Inc. (HCI) received the following PSS samples on December 6, 2002:

<u>PSS #</u>	<u>HCI #</u>	<u>Type</u>	<u>Analysis</u>
FRSB-11A	AB74404	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide
FRSB-11B	AB74405	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide
FRTT-04	AB74406	Soil	Vo8260+15, BN8270+15, Metals-RCRA, Cyanide
STB120502	AB74407	Aqueous	Vo8260+15

Problems associated with these analyses are as follows:

### Volatiles:

Methylene chloride was recovered in method blank FA8164a and in samples AB74404-AB74407 as a result of possible laboratory contamination.

The MSD was recovered below QC criteria for 1,1-Dichloroethene (36%), Benzene (45%), Chlorobenzene (34%), Toluene (37%) and Trichloroethene (37%). The RPD between the MS and MSD was above QC criteria for 1,1-Dichloroethene (76%), Benzene (60%), Chlorobenzene (67%), Toluene (64%) and Trichloroethene (66%). The MBS and MS met all QC criteria.

There were no other problems associated with this analysis.

### Semi-Volatiles:

Sample AB74406 was run at a 2 times dilution.

Phthalates were recovered in method blank SMB1862 and in samples AB74404-AB74406 as a result of possible laboratory contamination.

The surrogates in SMB1862 (MS) were inadvertently double spiked.

The MS was recovered above QC criteria for 2,4-Dinitrotoluene (91%). The MBS and MSD met all QC criteria for 2,4-Dinitrotoluene.

There were no other problems associated with this analysis.

There were no other problems associated with this analysis.

### Metals:

The MSD was recovered above QC criteria for Ba (126%). The MS and LCS met all QC criteria for Ba.

The serial dilution was recovered above QC criteria for Pb (11%).

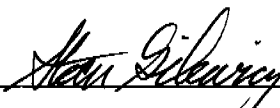
There were no other problems associated with this analysis.

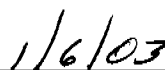
### Wet Chemistry:

There were no problems associated with this analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

HC 0007

  
Stan Gilewicz, Laboratory Director

  
Date

## Data Package Summary Forms

**Form1**  
ORGANICS VOLATILE REPORT

HC 0009

**Sample Number:** AB74404      **Matrix:** Soil  
**Client Id:** FRSB-11A      **Initial Volume:** 5g  
**Data File:** FA8173      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 20:21      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 85  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0059	U
79345	1,1,2,2-Tetrachloroethane	0.0059	U
79005	1,1,2-Trichloroethane	0.0059	U
75343	1,1-Dichloroethane	0.0059	U
75354	1,1-Dichloroethene	0.0059	U
107062	1,2-Dichloroethane	0.0059	U
78875	1,2-Dichloropropane	0.0059	U
78933	2-Butanone	0.029	U
110758	2-Chloroethylvinylether	0.0059	U
591786	2-Hexanone	0.024	U
108101	4-Methyl-2-Pentanone	0.024	U
67641	Acetone	0.024	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0082	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0059	U
75252	Bromoform	0.0059	U
74839	Bromomethane	0.0059	U
75150	Carbon disulfide	0.0059	U
56235	Carbon tetrachloride	0.0059	U
108907	Chlorobenzene	0.0059	U
75003	Chloroethane	0.0059	U
67663	Chloroform	0.0059	U
74873	Chloromethane	0.0059	U
156592	Cis-1,2-Dichloroethene	0.0059	U
10061015	Cis-1,3-Dichloropropene	0.0059	U
124481	Dibromochloromethane	0.0059	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0059	0.012 B
95476	O-Xylene	0.0012	U
100425	Styrene	0.0012	U
127184	Tetrachloroethene	0.0059	U
108883	Toluene	0.0012	0.0016
156605	Trans-1,2-Dichloroethene	0.0059	U
10061026	Trans-1,3-Dichloropropene	0.0059	U
79016	Trichloroethene	0.0059	U
75014	Vinyl chloride	0.0059	U

**Total Target Concentration 0.014**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\42758.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0010

<b>Sample Number:</b> AB74404	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-11A	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8173	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 20:21	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 85

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		unknown	12.570	0.0049 J B

**Total Tentatively Identified Concentration**      0.0049

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\42758.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0011

**Sample Number:** AB74405      **Matrix:** Soil  
**Client Id:** FRSB-11B      **Initial Volume:** 5g  
**Data File:** FA8172      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 19:55      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 79  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0063	U
79345	1,1,2,2-Tetrachloroethane	0.0063	U
79005	1,1,2-Trichloroethane	0.0063	U
75343	1,1-Dichloroethane	0.0063	U
75354	1,1-Dichloroethene	0.0063	U
107062	1,2-Dichloroethane	0.0063	U
78875	1,2-Dichloropropane	0.0063	U
78933	2-Butanone	0.032	U
110758	2-Chloroethylvinylether	0.0063	U
591786	2-Hexanone	0.025	U
108101	4-Methyl-2-Pentanone	0.025	U
67641	Acetone	0.025	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0088	U
71432	Benzene	0.0013	U
75274	Bromodichloromethane	0.0063	U
75252	Bromoform	0.0063	U
74839	Bromomethane	0.0063	U
75150	Carbon disulfide	0.0063	U
56235	Carbon tetrachloride	0.0063	U
108907	Chlorobenzene	0.0063	U
75003	Chloroethane	0.0063	U
67663	Chloroform	0.0063	U
74873	Chloromethane	0.0063	U
156592	Cis-1,2-Dichloroethene	0.0063	U
10061015	Cis-1,3-Dichloropropene	0.0063	U
124481	Dibromochloromethane	0.0063	U
100414	Ethylbenzene	0.0013	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0063	0.011 B
95476	O-Xylene	0.0013	U
100425	Styrene	0.0013	U
127184	Tetrachloroethene	0.0063	U
108883	Toluene	0.0013	0.0020
156605	Trans-1,2-Dichloroethene	0.0063	U
10061026	Trans-1,3-Dichloropropene	0.0063	U
79016	Trichloroethene	0.0063	U
75014	Vinyl chloride	0.0063	U

**Total Target Concentration 0.013**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\42758.txt

**Form 1e/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0012

<b>Sample Number:</b> AB74405	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-11B	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8172	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 19:55	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 79

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration</b> mg/Kg
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration** 0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\42758.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0013

**Sample Number:** AB74406      **Matrix:** Soil  
**Client Id:** FRTT-04      **Initial Volume:** 5g  
**Data File:** FA8174      **Final Volume:** NA  
**Date Analyzed:** 10 Dec 2002 20:47      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA      **Percent Solids:** 90  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
71556	1,1,1-Trichloroethane	0.0056	U
79345	1,1,2,2-Tetrachloroethane	0.0056	U
79005	1,1,2-Trichloroethane	0.0056	U
75343	1,1-Dichloroethane	0.0056	U
75354	1,1-Dichloroethene	0.0056	U
107062	1,2-Dichloroethane	0.0056	U
78875	1,2-Dichloropropane	0.0056	U
78933	2-Butanone	0.028	U
110758	2-Chloroethylvinylether	0.0056	U
591786	2-Hexanone	0.022	U
108101	4-Methyl-2-Pentanone	0.022	U
67641	Acetone	0.022	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0077	U
71432	Benzene	0.0011	0.0019
75274	Bromodichloromethane	0.0056	U
75252	Bromoform	0.0056	U
74839	Bromomethane	0.0056	U
75150	Carbon disulfide	0.0056	U
56235	Carbon tetrachloride	0.0056	U
108907	Chlorobenzene	0.0056	U
75003	Chloroethane	0.0056	U
67663	Chloroform	0.0056	U
74873	Chloromethane	0.0056	U
156592	Cis-1,2-Dichloroethene	0.0056	U
10061015	Cis-1,3-Dichloropropene	0.0056	U
124481	Dibromochloromethane	0.0056	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0056	0.0060 B
95476	O-Xylene	0.0011	U
100425	Styrene	0.0011	U
127164	Tetrachloroethene	0.0056	U
108883	Toluene	0.0011	0.0051
156605	Trans-1,2-Dichloroethene	0.0056	U
10061026	Trans-1,3-Dichloropropene	0.0056	U
79016	Trichloroethene	0.0056	U
75014	Vinyl chloride	0.0056	U

**Total Target Concentration 0.013**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\42758.txt



**Formle/If**  
ORGANICS VOLATILE REPORT  
**Tentatively Identified Compounds**

HC 0014

<b>Sample Number:</b> AB74406	<b>Matrix:</b> Soil
<b>Client Id:</b> FRTT-04	<b>Initial Volume:</b> 5g
<b>Data File:</b> FA8174	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 20:47	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 90

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration mg/Kg</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\42758.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0015

**Sample Number:** AB74407 **Matrix:** Water  
**Client Id:** STB120502 **Initial Volume:** 5ml  
**Data File:** FD5059 **Final Volume:** NA  
**Date Analyzed:** 9 Dec 2002 10:05 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/2002-NA **Percent Solids:** 0  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	1.2 J
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 1.2**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\42758.txt

**Formle/If**  
ORGANICS VOLATILE REPORT  
**Tentatively Identified Compounds**

HC 0016

<b>Sample Number:</b> AB74407	<b>Matrix:</b> Water
<b>Client Id:</b> STB120502	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FD5059	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 9 Dec 2002 10:05	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/2002-NA	<b>Percent Solids:</b> 0

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration ug/L</b>
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\42758.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0017

**Sample Number:** AB74404      **Matrix:** Soil  
**Client Id:** FRSB-11A      **Initial Volume:** 30g  
**Data File:** FC4429      **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 18:05      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02      **Percent Solids:** 85  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.39	U
95501	1,2-Dichlorobenzene	0.39	U
122667	1,2-Diphenylhydrazine	0.39	U
541731	1,3-Dichlorobenzene	0.39	U
106467	1,4-Dichlorobenzene	0.39	U
121142	2,4-Dinitrotoluene	0.39	U
606202	2,6-Dinitrotoluene	0.39	U
91587	2-Chloronaphthalene	0.39	U
91576	2-Methylnaphthalene	0.39	U
88744	2-Nitroaniline	0.39	U
91941	3,3'-Dichlorobenzidine	0.39	U
99092	3-Nitroaniline	0.39	U
101553	4-Bromophenyl-phenylether	0.39	U
106478	4-Chloroaniline	0.39	U
7005723	4-Chlorophenyl-phenylether	0.39	U
100016	4-Nitroaniline	0.39	U
83329	Acenaphthene	0.39	U
208968	Acenaphthylene	0.39	U
120127	Anthracene	0.39	U
92875	Benzidine	0.78	U
56553	Benzo[a]anthracene	0.39	U
50328	Benzo[a]pyrene	0.39	U
205992	Benzo[b]fluoranthene	0.39	U
191242	Benzo[g,h,i]perylene	0.39	U
207089	Benzo[k]fluoranthene	0.39	U
111911	Bis(2-Chloroethoxy)methane	0.39	U
111444	Bis(2-Chloroethyl)Ether	0.39	U
108601	Bis(2-Chloroisopropyl)ether	0.39	U
117817	Bis(2-Ethylhexyl)phthalate	0.39	0.29 JB
85687	Butylbenzylphthalate	0.39	U
86748	Carbazole	0.39	U
218019	Chrysene	0.39	U
117840	Di-n-octylphthalate	0.39	0.041 J
84742	Di-n-butylphthalate	0.39	0.11 J
53703	Dibenzo[a,h]Anthracene	0.39	U
132649	Dibenzofuran	0.39	U
84662	Diethylphthalate	0.39	U
131113	Dimethylphthalate	0.39	U
206440	Fluoranthene	0.39	U
86737	Fluorene	0.39	U
118741	Hexachlorobenzene	0.39	U
87683	Hexachlorobutadiene	0.39	U
77474	Hexachlorocyclopentadiene	0.39	U
67721	Hexachloroethane	0.39	U
193395	Indeno[1,2,3-cd]pyrene	0.39	U
78591	Isophorone	0.39	U
621647	N-Nitroso-Di-N-Propylamine	0.39	U
62759	N-Nitrosodimethylamine	0.39	U
86306	N-Nitrosodiphenylamine	0.39	U
91203	Naphthalene	0.39	U
98953	Nitrobenzene	0.39	U
85018	Phenanthrene	0.39	U
129000	Pyrene	0.39	U

**Total Target Concentration 0.44**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

**Formle/If**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0018

<b>Sample Number:</b> AB74404	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-11A	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4429	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 18:05	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 85

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	2.390	0.85 J $\beta$
2	141-79-7	3-Penten-2-one, 4-methyl-	2.960	22 J $\beta$
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.470	6.8 J A $\beta$
4		unknown	11.420	0.41 J $\beta$
5	117-82-8	1,2-Benzenedicarboxylic acid, bis(2-meth	11.900	0.20 J
6	1120-07-6	Nonanamide	12.520	0.16 J
7	301-02-0	9-Octadecenamide, (Z)-	13.530	0.27 J
8	1120-07-6	Nonanamide	13.620	0.21 J
9		unknown	14.530	2.6 J $\beta$
10	301-02-0	9-Octadecenamide, (Z)-	15.470	0.22 J
11		unknown	16.350	1.2 J $\beta$

**Total Tentatively Identified Concentration      35**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File:** h:\import\24958.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0019

**Sample Number:** AB74405      **Matrix:** Soil  
**Client Id:** FRSB-11B      **Initial Volume:** 30g  
**Data File:** FE1147      **Final Volume:** 1ml  
**Date Analyzed:** 10 Dec 2002 22:14      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/6/02-12/9/02      **Percent Solids:** 79  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.42	U
95501	1,2-Dichlorobenzene	0.42	U
122667	1,2-Diphenylhydrazine	0.42	U
541731	1,3-Dichlorobenzene	0.42	U
106467	1,4-Dichlorobenzene	0.42	U
121142	2,4-Dinitrotoluene	0.42	U
606202	2,6-Dinitrotoluene	0.42	U
91587	2-Chloronaphthalene	0.42	U
91576	2-Methylnaphthalene	0.42	U
88744	2-Nitroaniline	0.42	U
91941	3,3'-Dichlorobenzidine	0.42	U
99092	3-Nitroaniline	0.42	U
101553	4-Bromophenyl-phenylether	0.42	U
106478	4-Chloroaniline	0.42	U
7005723	4-Chlorophenyl-phenylether	0.42	U
100016	4-Nitroaniline	0.42	U
83329	Acenaphthene	0.42	U
208968	Acenaphthylene	0.42	U
120127	Anthracene	0.42	U
92875	Benidine	0.84	U
56553	Benzo[a]anthracene	0.42	U
50328	Benzo[a]pyrene	0.42	U
205992	Benzo[b]fluoranthene	0.42	U
191242	Benzo[g,h,i]perylene	0.42	U
207089	Benzo[k]fluoranthene	0.42	U
111911	Bis(2-Chloroethoxy)methane	0.42	U
111444	Bis(2-Chloroethyl)Ether	0.42	U
108601	Bis(2-Chloroisopropyl)ether	0.42	U
117817	Bis(2-Ethylhexyl)phthalate	0.42	0.21 JB
85687	Butylbenzylphthalate	0.42	U
86748	Carbazole	0.42	U
218019	Chrysene	0.42	U
117840	Di-n-octylphthalate	0.42	U
84742	Di-n-butylphthalate	0.42	0.059 J
53703	Dibenzo[a,h]Anthracene	0.42	U
132649	Dibenzofuran	0.42	U
84662	Diethylphthalate	0.42	U
131113	Dimethylphthalate	0.42	U
206440	Fluoranthene	0.42	U
86737	Fluorene	0.42	U
118741	Hexachlorobenzene	0.42	U
87683	Hexachlorobutadiene	0.42	U
77474	Hexachlorocyclopentadiene	0.42	U
67721	Hexachloroethane	0.42	U
193395	Indeno[1,2,3-cd]pyrene	0.42	U
78591	Isophorone	0.42	U
621647	N-Nitroso-Di-N-Propylamine	0.42	U
62759	N-Nitrosodimethylamine	0.42	U
86306	N-Nitrosodiphenylamine	0.42	U
91203	Naphthalene	0.42	U
98953	Nitrobenzene	0.42	U
85018	Phenanthrene	0.42	U
129000	Pyrene	0.42	U

**Total Target Concentration 0.27**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

**Formle/If**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0020

<b>Sample Number:</b> AB74405	<b>Matrix:</b> Soil
<b>Client Id:</b> FRSB-11B	<b>Initial Volume:</b> 30g
<b>Data File:</b> FE1147	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 10 Dec 2002 22:14	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 79

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	1.910	0.54 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	2.480	45 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.200	7.6 J A B
4		unknown	8.600	0.31 J
5	301-02-0	9-Octadecenamide, (Z)-	11.150	1.2 J B
6	301-02-0	9-Octadecenamide, (Z)-	12.750	0.47 J

**Total Tentatively Identified Concentration**      **55**

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File:* h:\import\24958.txt

**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0021

**Sample Number:** AB74406(2X) **Matrix:** Soil  
**Client Id:** FRTT-04 **Initial Volume:** 30g  
**Data File:** FC4491 **Final Volume:** 1ml  
**Date Analyzed:** 12 Dec 2002 15:45 **Dilution Factor:** 2  
**Date Received/Extracted:** 12/6/02-12/9/02 **Percent Solids:** 90  
**Column:** Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg )
120821	1,2,4-Trichlorobenzene	0.74	U
95501	1,2-Dichlorobenzene	0.74	U
122667	1,2-Diphenylhydrazine	0.74	U
541731	1,3-Dichlorobenzene	0.74	U
106467	1,4-Dichlorobenzene	0.74	U
121142	2,4-Dinitrotoluene	0.74	U
606202	2,6-Dinitrotoluene	0.74	U
91587	2-Chloronaphthalene	0.74	U
91576	2-Methylnaphthalene	0.74	0.15 J
88744	2-Nitroaniline	0.74	U
91941	3,3'-Dichlorobenzidine	0.74	U
99092	3-Nitroaniline	0.74	U
101553	4-Bromophenyl-phenylether	0.74	U
106478	4-Chloroaniline	0.74	U
7005723	4-Chlorophenyl-phenylether	0.74	U
100016	4-Nitroaniline	0.74	U
83329	Acenaphthene	0.74	0.13 J
208968	Acenaphthylene	0.74	0.27 J
120127	Anthracene	0.74	0.51 J
92875	Benzidine	1.5	U
56553	Benzo[a]anthracene	0.74	1.8
50328	Benzo[a]pyrene	0.74	1.8
205992	Benzo[b]fluoranthene	0.74	2.9
191242	Benzo[g,h,i]perylene	0.74	0.70 J
207089	Benzo[k]fluoranthene	0.74	1.1
111911	Bis(2-Chloroethoxy)methane	0.74	U
111444	Bis(2-Chloroethyl)Ether	0.74	U
108601	Bis(2-Chloroisopropyl)ether	0.74	U
117817	Bis(2-Ethylhexyl)phthalate	0.74	0.32 JB
85687	Butylbenzylphthalate	0.74	U
86748	Carbazole	0.74	0.18 J
218019	Chrysene	0.74	1.8
117840	Di-n-octylphthalate	0.74	U
84742	Di-n-butylphthalate	0.74	U
53703	Dibenzo[a,h]Anthracene	0.74	0.30 J
132649	Dibenzofuran	0.74	0.078 J
84662	Diethylphthalate	0.74	U
131113	Dimethylphthalate	0.74	U
206440	Fluoranthene	0.74	2.9
86737	Fluorene	0.74	0.17 J
118741	Hexachlorobenzene	0.74	U
87683	Hexachlorobutadiene	0.74	U
77474	Hexachlorocyclopentadiene	0.74	U
67721	Hexachloroethane	0.74	U
193395	Indeno[1,2,3-cd]pyrene	0.74	0.72 J
78591	Isophorone	0.74	U
621647	N-Nitroso-Di-N-Propylamine	0.74	U
62759	N-Nitrosodimethylamine	0.74	U
86306	N-Nitrosodiphenylamine	0.74	U
91203	Naphthalene	0.74	0.61 J
98953	Nitrobenzene	0.74	U
85018	Phenanthrene	0.74	1.8
129000	Pyrene	0.74	3.3

**Total Target Concentration 22**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File: h:\import\24958.txt



**Formle/If**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0022

<b>Sample Number:</b> AB74406(2X)	<b>Matrix:</b> Soil
<b>Client Id:</b> FRTT-04	<b>Initial Volume:</b> 30g
<b>Data File:</b> FC4491	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 12 Dec 2002 15:45	<b>Dilution Factor:</b> 2
<b>Date Received/Extracted:</b> 12/6/02-12/9/02	<b>Percent Solids:</b> 90

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	2.370	0.76 J B
2	141-79-7	3-Penten-2-one, 4-methyl-	2.920	24 J B
3	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.430	7.0 J A B
4	100-42-5	Styrene	4.040	0.55 J
5	637-50-3	Benzene, 1-propenyl-	5.240	0.56 J
6	31295-56-4	Dodecane, 2,6,11-trimethyl-	10.900	0.35 J
7		unknown	11.410	0.43 J B
8	243-17-4	11H-Benzo[b]fluorene	14.000	0.42 J
9		unknown	14.520	1.0 J B
10		unknown	14.890	0.37 J
11		unknown	16.340	0.67 J B
12	192-97-2	Benzo[e]pyrene	16.880	0.78 J
13	55401-75-7	Anthracene, 9-dodecyltetradecahydro-	17.650	1.0 J
14		unknown	18.000	0.40 J

**Total Tentatively Identified Concentration      38**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File:** h:\import\24958.txt

Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74404  
Client Id: FRSB-11A  
Matrix: SOIL

% Solid: 85  
Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.4	3.6	100	PEICP1	12/13/02	4382	S4382a	39
7440-39-3	Barium	12	13	100	PEICP1	12/13/02	4382	S4382a	39
7440-43-9	Cadmium	0.71	ND	100	PEICP1	12/13/02	4382	S4382a	39
7440-47-3	Chromium	5.9	18	100	PEICP1	12/13/02	4382	S4382a	39
7439-92-1	Lead	5.9	10	100	PEICP1	12/13/02	4382	S4382a	39
7439-97-6	Mercury	0.17	ND	167	HGCV1	12/09/02	4382	H4382S	29
7782-49-2	Selenium	2.4	ND	100	PEICP1	12/13/02	4382	S4382a	39
7440-22-4	Silver	2.9	ND	100	PEICP1	12/13/02	4382	S4382a	39

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*neg*  
12/13/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74405  
 Client Id: FRSB-11B  
 Matrix: SOIL

% Solid: 79  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.5	ND	100	PEICP1	12/13/02	4382	S4382a	40
7440-39-3	Barium	13	ND	100	PEICP1	12/13/02	4382	S4382a	40
7440-43-9	Cadmium	0.76	ND	100	PEICP1	12/13/02	4382	S4382a	40
7440-47-3	Chromium	6.3	ND	100	PEICP1	12/13/02	4382	S4382a	40
7439-92-1	Lead	6.3	47	100	PEICP1	12/13/02	4382	S4382a	40
7439-97-6	Mercury	0.18	ND	167	HGCV1	12/09/02	4382	H4382S	30
7782-49-2	Selenium	2.5	ND	100	PEICP1	12/13/02	4382	S4382a	40
7440-22-4	Silver	3.2	ND	100	PEICP1	12/13/02	4382	S4382a	40

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

769  
12/18/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74406  
 Client Id: FRTT-04  
 Matrix: SOIL

% Solid: 90  
 Units: mg/Kg

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	2.2	10	100	PEICP1	12/13/02	4382	S4382a	41
7440-39-3	Barium	11	330	100	PEICP1	12/13/02	4382	S4382a	41
7440-43-9	Cadmium	0.67	1.2	100	PEICP1	12/13/02	4382	S4382a	41
7440-47-3	Chromium	5.6	21	100	PEICP1	12/13/02	4382	S4382a	41
7439-92-1	Lead	5.6	3700	100	PEICP1	12/13/02	4382	S4382a	41
7439-97-6	Mercury	0.16	0.58	167	HGCV1	12/09/02	4382	H4382S	31
7782-49-2	Selenium	2.2	3.7	100	PEICP1	12/13/02	4382	S4382a	41
7440-22-4	Silver	2.8	ND	100	PEICP1	12/13/02	4382	S4382a	41

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

7/29  
12/15/02

# Veritech Wet Chem Form 1 Summary

Lab #: AB74404

Lab #: AB74404

Sample ID: FRSB-11A

Sample Matrix: Soil

Date Received: 12/6/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	85	Percent		1	12/9/02

Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/19/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.29	1	12/19/02

Lab #: AB74405

Sample Matrix: Soil

Sample ID: FRSB-11B

Date Received: 12/6/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	79	Percent		1	12/9/02

Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/19/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.32	1	12/19/02

Lab #: AB74406

Sample Matrix: Soil

Sample ID: FRTT-04

Date Received: 12/6/02

Test Group Name: % Solids SM2540G		Date Prepared:			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
% Solids	90	Percent		1	12/9/02

Test Group Name: Cyanide (Soil/Waste)		Date Prepared: 12/19/02			
Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/kg	0.28	1	12/19/02

## **APPENDIX I**

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### **GROUNDWATER SAMPLE ANALYTICAL SUMMARY SHEETS**

**Hampton-Clarke, Inc.**  
**veritech laboratories**

175 Route 46 West, Unit D  
Fairfield, NJ 07004  
(973) 244-9770  
Federal ID: 222679402

HC  
0001

**Paulus, Sokolowski & Sartor, Inc.**

**Format: NYDOH-CatB**  
**Project: Far Rockaway Former**  
**PO Number: 2522-006-084**

Samples submitted on: 12/13/02

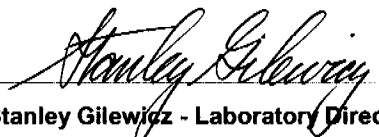
AB74903  
AB74904  
AB74905  
AB74906  
AB74907  
AB74908  
AB74909  
AB74910  
AB74911  
AB74912  
AB74913

**Date: 1/9/03**  
**HCI Project: 12141413**

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

\_\_\_\_\_  
Robin Cousineau - Quality Assurance Director

Or

  
Stanley Gilewicz - Laboratory Director

**CT #: PH-0671    MA #: NJ386    NJ #: 14622    NY #: 11408    PA #: 68-463**

**Formle/lf**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0191

<b>Sample Number:</b> DAILY BLANK	<b>Matrix:</b> Soil
<b>Client Id:</b>	<b>Initial Volume:</b> 5g
<b>Data File:</b> Fa8164a	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 10 Dec 2002 16:29	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b>	<b>Percent Solids:</b> 100

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration</b> mg/Kg
1		unknown	12.570	0.0043 <i>J</i>

**Total Tentatively Identified Concentration** 0.0043

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\42758.txt



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## **SDG Narrative**

## SDG Narrative

HC 0003

Project: PSS

Job: Far Rockaway Former MGP

Hampton-Clarke, Inc. (HCI) received the following PSS samples on December 13, 2002:

<u>PSS #</u>	<u>HCI #</u>	<u>Type</u>	<u>Analysis</u>
FRGW-07	AB74903	Aqueous	Vo8260+15, BN8270+15, Metals-RCRA 6010, Mercury-7471A, Cyanide 9010
FRGW-01	AB74904	Aqueous	Vo8260+15, BN8270+15, Metals-RCRA 6010, Mercury-7471A, Cyanide 9010
FRGW-02	AB74905	Aqueous	Vo8260+15, BN8270+15, Metals-RCRA 6010, Mercury-7471A, Cyanide 9010
FB121202	AB74906	Aqueous	Vo8260+15, BN8270+25, PCB-8082, Pesticides-8081, Metals-TAL 6010, Mercury-7471A, Cyanide 9010
FRGW-03	AB74907	Aqueous	Vo8260+15, BN8270+25, PCB-8082, Pesticides-8081, Metals-TAL 6010, Mercury-7471A, Cyanide 9010
FRGW-03 (MS)	AB74908	Aqueous	Vo8260+15, BN8270+25, PCB-8082, Pesticides-8081, Metals-TAL 6010, Mercury-7471A, Cyanide 9010
FRGW-03 (MSD)	AB74909	Aqueous	Vo8260+15, BN8270+25, PCB-8082, Pesticides-8081, Metals-TAL 6010, Mercury-7471A, Cyanide 9010
FRGW-05	AB74910	Aqueous	Vo8260+15, BN8270+15, Metals-RCRA 6010, Mercury-7471A, Cyanide 9010
FRGW-06	AB74911	Aqueous	Vo8260+15, BN8270+15, Metals-RCRA 6010, Mercury-7471A, Cyanide 9010
FRGW-08	AB74912	Aqueous	Vo8260+15, BN8270+15, Metals-RCRA 6010, Mercury-7471A, Cyanide 9010
TB121202	AB74913	Aqueous	Vo8260+15

Problems associated with these analyses are as follows:

Volatiles:

Sample AB74905 was run at a 10 times dilution.

Samples AB74907-AB74909 were run at a 500 times dilution. Samples AB74908 and AB74909 are QC samples; two different Form 1's have been provided for these samples because spiking compounds were added after the samples were diluted. Therefore, one Form 1 shows the targeted compounds which required the dilution, while the other Form 1 shows the spiking compounds, the concentrations of which have not been diluted.

Methylene chloride was recovered in samples AB74906 and AB74913 as a result of possible laboratory contamination.

The MS and MSD were recovered above QC criteria for Toluene (184% and 166%). The MBS met all QC criteria for Toluene.

There were no other problems associated with this analysis.

Semi-Volatiles:

Samples AB74905, AB74907-AB74909 were run at a 20 times dilution.

Phthalates were recovered in method blank WMB1759 and in samples AB74903, AB74904, AB74906, AB74908, AB74909, AB74910-AB74912 as a result of possible laboratory contamination.

The MS and MSD were recovered above QC criteria for Pentachlorophenol (113% and 115%). The MBS met all QC criteria for Pentachlorophenol.

0004

There were no other problems with this analysis.

PCBs:

There were no problems associated with this analysis.

Pesticides:

There were no problems associated with this analysis.

Metals:

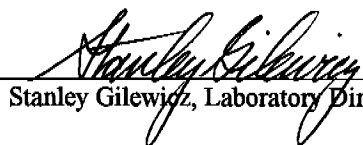
The serial dilution was recovered above QC criteria for Mg (25%) and Mn (16%).

There were no other problems associated with this analysis.

Wet Chemistry:

There were no problems associated with this analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

  
Stanley Gilewicz, Laboratory Director

  
Date

## **Data Package Summary Forms**

**Form 1**  
ORGANICS VOLATILE REPORT

**Sample Number:** AB74903

**Matrix:** Water

**Client Id:** FRGW-07

**Initial Volume:** 5ml

**Data File:** FB8436

**Final Volume:** NA

**Date Analyzed:** 17 Dec 2002 12:17

**Dilution Factor:** 1

**Date Received/Extracted:** 12/13/2002-NA

**Percent Solids:** 0

**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

HC 0006

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	5.0 J
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 5**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\50427.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0007

<b>Sample Number:</b> AB74903	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-07	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FB8436	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 17 Dec 2002 12:17	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/13/2002-NA	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\50427.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0008

**Sample Number:** AB74904      **Matrix:** Water  
**Client Id:** FRGW-01      **Initial Volume:** 5ml  
**Data File:** FB8437      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 12:40      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L)	)
71556	1,1,1-Trichloroethane	5.0	U	
79345	1,1,2,2-Tetrachloroethane	5.0	U	
79005	1,1,2-Trichloroethane	5.0	U	
75343	1,1-Dichloroethane	5.0	U	
75354	1,1-Dichloroethene	5.0	U	
107062	1,2-Dichloroethane	5.0	U	
78875	1,2-Dichloropropane	5.0	U	
78933	2-Butanone	25	U	
110758	2-Chloroethylvinylether	5.0	U	
591786	2-Hexanone	20	U	
108101	4-Methyl-2-Pentanone	20	U	
67641	Acetone	20	U	
107028	Acrolein	15	U	
107131	Acrylonitrile	6.9	U	
71432	Benzene	1.0	U	
75274	Bromodichloromethane	5.0	U	
75252	Bromoform	5.0	U	
74839	Bromomethane	5.0	U	
75150	Carbon disulfide	5.0	U	
56235	Carbon tetrachloride	5.0	U	
108907	Chlorobenzene	5.0	U	
75003	Chloroethane	5.0	U	
67663	Chloroform	5.0	U	
74873	Chloromethane	5.0	U	
156592	Cis-1,2-Dichloroethene	5.0	U	
10061015	Cis-1,3-Dichloropropene	5.0	U	
124481	Dibromochloromethane	5.0	U	
100414	Ethylbenzene	1.0	U	
108383	M&p-Xylenes	2.0	U	
75092	Methylene chloride	5.0	U	
95476	O-Xylene	1.0	U	
100425	Styrene	1.0	U	
127184	Tetrachloroethene	5.0	U	
108883	Toluene	1.0	U	
156605	Trans-1,2-Dichloroethene	5.0	U	
10061026	Trans-1,3-Dichloropropene	5.0	U	
79016	Trichloroethene	5.0	U	
75014	Vinyl chloride	5.0	U	

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\50427.txt



**Formle/If**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0009

<b>Sample Number:</b> AB74904	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-01	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FB8437	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 17 Dec 2002 12:40	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/13/2002-NA	<b>Percent Solids:</b> 0

<b>Hit#</b>	<b>Cas Number</b>	<b>Compound</b>	<b>RT</b>	<b>Concentration</b> ug/L
1		No Unknown Compounds Detected		J

**Total Tentatively Identified Concentration**      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\50427.txt

**Form I**  
ORGANICS VOLATILE REPORT

HC 0010

**Sample Number:** AB74905(10X)      **Matrix:** Water  
**Client Id:** FRGW-02      **Initial Volume:** 5ml  
**Data File:** FB8441      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 14:41      **Dilution Factor:** 10  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	50	U
79345	1,1,2,2-Tetrachloroethane	50	U
79005	1,1,2-Trichloroethane	50	U
75343	1,1-Dichloroethane	50	U
75354	1,1-Dichloroethene	50	U
107062	1,2-Dichloroethane	50	U
78875	1,2-Dichloropropane	50	U
78933	2-Butanone	250	U
110758	2-Chloroethylvinylether	50	U
591786	2-Hexanone	200	U
108101	4-Methyl-2-Pentanone	200	U
67641	Acetone	200	U
107028	Acrolein	150	U
107131	Acrylonitrile	69	U
71432	Benzene	10	U
75274	Bromodichloromethane	50	U
75252	Bromoform	50	U
74839	Bromomethane	50	U
75150	Carbon disulfide	50	U
56235	Carbon tetrachloride	50	U
108907	Chlorobenzene	50	U
75003	Chloroethane	50	U
67663	Chloroform	50	U
74873	Chloromethane	50	U
156592	Cis-1,2-Dichloroethene	50	U
10061015	Cis-1,3-Dichloropropene	50	U
124481	Dibromochloromethane	50	U
100414	Ethylbenzene	10	41
108383	M&p-Xylenes	20	29
75092	Methylene chloride	50	U
95476	O-Xylene	10	20
100425	Styrene	10	U
127184	Tetrachloroethene	50	U
108883	Toluene	10	U
156605	Trans-1,2-Dichloroethene	50	U
10061026	Trans-1,3-Dichloropropene	50	U
79016	Trichloroethene	50	U
75014	Vinyl chloride	50	U

**Total Target Concentration 90**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\50427.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0011

<b>Sample Number:</b> AB74905(10X)	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-02	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FB8441	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 17 Dec 2002 14:41	<b>Dilution Factor:</b> 10
<b>Date Received/Extracted:</b> 12/13/2002-NA	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration ug/L</i>
1	620-14-4	Benzene, 1-ethyl-3-methyl-	11.450	130 <i>J</i>
2	526-73-8	Benzene, 1,2,3-trimethyl-	11.800	93 <i>J</i>
3		unknown	12.310	87 <i>J</i>
4	767-58-8	1H-Indene, 2,3-dihydro-1-methyl-	13.430	48 <i>J</i>
5	91-20-3	Naphthalene	14.100	160 <i>J</i>

**Total Tentatively Identified Concentration**      520

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\50427.txt

**Form I**  
ORGANICS VOLATILE REPORT

HC 0012

**Sample Number:** AB74906      **Matrix:** Water  
**Client Id:** FB121202      **Initial Volume:** 5ml  
**Data File:** FB8433      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 11:06      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	1.6 J
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	1.2
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 2.8**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\50427.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0013

<i>Sample Number:</i> AB74906	<i>Matrix:</i> Water
<i>Client Id:</i> FB121202	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FB8433	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 17 Dec 2002 11:06	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/13/2002-NA	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\50427.txt

**Form 1**  
**ORGANICS VOLATILE REPORT**

HC 0014

**Sample Number:** AB74907(500X)      **Matrix:** Water  
**Client Id:** FRGW-03      **Initial Volume:** 5ml  
**Data File:** FB8442      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 15:04      **Dilution Factor:** 500  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	2500	U
79345	1,1,2,2-Tetrachloroethane	2500	U
79005	1,1,2-Trichloroethane	2500	U
75343	1,1-Dichloroethane	2500	U
75354	1,1-Dichloroethene	2500	U
107062	1,2-Dichloroethane	2500	U
78875	1,2-Dichloropropane	2500	U
78933	2-Butanone	13000	U
110758	2-Chloroethylvinylether	2500	U
591786	2-Hexanone	10000	U
108101	4-Methyl-2-Pentanone	10000	U
67641	Acetone	10000	U
107028	Acrolein	7500	U
107131	Acrylonitrile	3500	U
71432	Benzene	500	540
75274	Bromodichloromethane	2500	U
75252	Bromoform	2500	U
74839	Bromomethane	2500	U
75150	Carbon disulfide	2500	U
56235	Carbon tetrachloride	2500	U
108907	Chlorobenzene	2500	U
75003	Chloroethane	2500	U
67663	Chloroform	2500	U
74873	Chloromethane	2500	U
156592	Cis-1,2-Dichloroethene	2500	U
10061015	Cis-1,3-Dichloropropene	2500	U
124481	Dibromochloromethane	2500	U
100414	Ethylbenzene	500	1900
108383	M&p-Xylenes	1000	4200
75092	Methylene chloride	2500	U
95476	O-Xylene	500	U
100425	Styrene	500	6000
127184	Tetrachloroethene	2500	U
108883	Toluene	500	24000
156605	Trans-1,2-Dichloroethene	2500	U
10061026	Trans-1,3-Dichloropropene	2500	U
79016	Trichloroethene	2500	U
75014	Vinyl chloride	2500	U

**Total Target Concentration 37000**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\50427.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0015

<i>Sample Number:</i> AB74907(500X)	<i>Matrix:</i> Water
<i>Client Id:</i> FRGW-03	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FB8442	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 17 Dec 2002 15:04	<i>Dilution Factor:</i> 500
<i>Date Received/Extracted:</i> 12/13/2002-NA	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		column bleed	2.350	2300 <i>J</i>
2		column bleed	4.750	1700 <i>J</i>
3	95-13-6	1H-Indene	12.480	3000 <i>J</i>
4		unknown	14.110	2400 <i>J</i>

*Total Tentatively Identified Concentration*      9400

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\50427.txt

**Form I**  
**ORGANICS VOLATILE REPORT**

**Sample Number:** AB74908(500X)(M)

**Matrix:** Water

**Client Id:** FRGW-03 (MS)

**Initial Volume:** 5ml

**Data File:** FB8443

**Final Volume:** NA

**Date Analyzed:** 17 Dec 2002 15:27

**Dilution Factor:** 1

**Date Received/Extracted:** 12/13/2002-NA

**Percent Solids:** 0

**Column:** J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

HC 0016

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	23
79345	1,1,2,2-Tetrachloroethane	5.0	19
79005	1,1,2-Trichloroethane	5.0	21
75343	1,1-Dichloroethane	5.0	20
75354	1,1-Dichloroethene	5.0	23
107062	1,2-Dichloroethane	5.0	23
78875	1,2-Dichloropropane	5.0	20
78933	2-Butanone	25	16 J
110758	2-Chloroethylvinylether	5.0	13
591786	2-Hexanone	20	18 J
108101	4-Methyl-2-Pentanone	20	19 J
67641	Acetone	20	89
107028	Acrolein	15	59
107131	Acrylonitrile	5.0	88
75274	Bromodichloromethane	5.0	22
75252	Bromoform	5.0	17
74839	Bromomethane	5.0	21
75150	Carbon Disulfide	5.0	20
56235	Carbon Tetrachloride	5.0	24
108907	Chlorobenzene	5.0	20
75003	Chloroethane	5.0	21
67663	Chloroform	5.0	22
74873	Chloromethane	5.0	20
156592	Cis-1,2-Dichloroethene	5.0	18
10061015	Cis-1,3-Dichloropropene	5.0	18
124481	Dibromochloromethane	5.0	21
75092	Methylene Chloride	5.0	21
127184	Tetrachloroethene	5.0	20
156605	Trans-1,2-Dichloroethene	5.0	21
10061026	Trans-1,3-Dichloropropene	5.0	18
79016	Trichloroethene	5.0	20
75014	Vinyl Chloride	5.0	20

**Total Target Concentration 820**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*



**Form I**  
**ORGANICS VOLATILE REPORT**

HC 0017

**Sample Number:** AB74908(500X)(M) **Matrix:** Water  
**Client Id:** FRGW-03 (MS) **Initial Volume:** 5ml  
**Data File:** FB8443 **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 15:27 **Dilution Factor:** 500  
**Date Received/Extracted:** 12/13/2002-NA **Percent Solids:** 0  
**Column:** J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: ug/L )</i>
71432	Benzene	500	10000
100414	Ethylbenzene	500	12000
108383	M&p-Xylenes	1000	25000
95476	O-Xylene	500	12000
100425	Styrene	500	18000
108883	Toluene	500	42000

**Total Target Concentration 120000**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\124624.txt

**Formle/If**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0018

**Sample Number:** AB74908(500X)(MS:A)      **Matrix:** Water  
**Client Id:** FRGW-03 (MS)      **Initial Volume:** 5ml  
**Data File:** FB8443      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 15:27      **Dilution Factor:** 500  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		column bleed	2.360	2000 <i>J</i>
2	95-13-6	1H-Indene	12.480	3100 <i>J</i>

**Total Tentatively Identified Concentration**      5100

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\83714.txt

**Form I**  
**ORGANICS VOLATILE REPORT**

**Sample Number:** AB74909(500X)(M)

**Matrix:** Water

**Client Id:** FRGW-03 (MSD)

**Initial Volume:** 5ml

**Data File:** FB8444

**Final Volume:** NA

**Date Analyzed:** 17 Dec 2002 15:50

**Dilution Factor:** 1

**Date Received/Extracted:** 12/13/2002-NA

**Percent Solids:** 0

**Column:** J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

HC 0019

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	23
79345	1,1,2,2-Tetrachloroethane	5.0	18
79005	1,1,2-Trichloroethane	5.0	19
75343	1,1-Dichloroethane	5.0	21
75354	1,1-Dichloroethene	5.0	23
107062	1,2-Dichloroethane	5.0	23
78875	1,2-Dichloropropane	5.0	19
78933	2-Butanone	25	9.9 J
110758	2-Chloroethylvinylether	5.0	13
591786	2-Hexanone	20	19 J
108101	4-Methyl-2-Pentanone	20	17 J
67641	Acetone	20	98
107028	Acrolein	15	58
107131	Acrylonitrile	5.0	85
75274	Bromodichloromethane	5.0	22
75252	Bromoform	5.0	17
74839	Bromomethane	5.0	23
75150	Carbon Disulfide	5.0	21
56235	Carbon Tetrachloride	5.0	25
108907	Chlorobenzene	5.0	19
75003	Chloroethane	5.0	24
67663	Chloroform	5.0	23
74873	Chloromethane	5.0	20
156592	Cis-1,2-Dichloroethene	5.0	20
10061015	Cis-1,3-Dichloropropene	5.0	18
124481	Dibromochloromethane	5.0	20
75092	Methylene Chloride	5.0	21
127184	Tetrachloroethene	5.0	19
156605	Trans-1,2-Dichloroethene	5.0	22
10061026	Trans-1,3-Dichloropropene	5.0	18
79016	Trichloroethene	5.0	21
75014	Vinyl Chloride	5.0	23

**Total Target Concentration 820**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
**ORGANICS VOLATILE REPORT**

HC 0020

**Sample Number:** AB74909(500X)(M)      **Matrix:** Water  
**Client Id:** FRGW-03 (MSD)      **Initial Volume:** 5ml  
**Data File:** FB8444      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 15:50      **Dilution Factor:** 500  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: ug/L )</i>
71432	Benzene	500	10000
100414	Ethylbenzene	500	11000
108383	M&p-Xylenes	1000	24000
95476	O-Xylene	500	12000
100425	Styrene	500	18000
108883	Toluene	500	40000

**Total Target Concentration 120000**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\124624.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0021

**Sample Number:** AB74909(500X)(MSD:                      **Matrix:** Water  
**Client Id:** FRGW-03 (MSD)                      **Initial Volume:** 5ml  
**Data File:** FB8444                      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 15:50                      **Dilution Factor:** 500  
**Date Received/Extracted:** 12/13/2002-NA                      **Percent Solids:** 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration ug/L</i>
1		column bleed	2.360	3000 <i>J</i>
2		column bleed	4.740	1700 <i>J</i>
3	95-13-6	1H-Indene	12.470	3300 <i>J</i>

**Total Tentatively Identified Concentration**                      8000

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\83714.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0022

**Sample Number:** AB74910      **Matrix:** Water  
**Client Id:** FRGW-05      **Initial Volume:** 5ml  
**Data File:** FB8447      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 17:00      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	2.5 U
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
100425	Styrene	1.0	3.4 U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	27 U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 33**

*U - Indicates the compound was analyzed but not detected.  
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
 B - Indicates the analyte was found in the blank as well as in the sample.  
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\50427.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0023

<i>Sample Number:</i> AB74910	<i>Matrix:</i> Water
<i>Client Id:</i> FRGW-05	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FB8447	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 17 Dec 2002 17:00	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/13/2002-NA	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		column bleed	2.070	3.1 J

*Total Tentatively Identified Concentration*      3.1

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\50427.txt

**Form I**  
ORGANICS VOLATILE REPORT

HC 0024

**Sample Number:** AB74911      **Matrix:** Water  
**Client Id:** FRGW-06      **Initial Volume:** 5ml  
**Data File:** FB8453      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 19:20      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	1.4 J
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 12**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\50427.txt



**Formle/lf**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0025

<i>Sample Number:</i> AB74911	<i>Matrix:</i> Water
<i>Client Id:</i> FRGW-06	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FB8453	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 17 Dec 2002 19:20	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/13/2002-NA	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		No Unknown Compounds Detected		J

*Total Tentatively Identified Concentration*      0

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\50427.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0026

**Sample Number:** AB74912      **Matrix:** Water  
**Client Id:** FRGW-08      **Initial Volume:** 5ml  
**Data File:** FB8448      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 17:24      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	6.4
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 6.4**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\50427.txt

**Formle/If**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0027

<b>Sample Number:</b> AB74912	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-08	<b>Initial Volume:</b> 5ml
<b>Data File:</b> FB8448	<b>Final Volume:</b> NA
<b>Date Analyzed:</b> 17 Dec 2002 17:24	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/13/2002-NA	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		column bleed	2.060	3.9 <i>J</i>
2		column bleed	4.760	3.0 <i>J</i>

**Total Tentatively Identified Concentration**      6.9

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\50427.txt

**Form1**  
ORGANICS VOLATILE REPORT

HC 0028

**Sample Number:** AB74913      **Matrix:** Water  
**Client Id:** TB121202      **Initial Volume:** 5ml  
**Data File:** FB8435      **Final Volume:** NA  
**Date Analyzed:** 17 Dec 2002 11:54      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/2002-NA      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
78933	2-Butanone	25	U
110758	2-Chloroethylvinylether	5.0	U
591786	2-Hexanone	20	U
108101	4-Methyl-2-Pentanone	20	U
67641	Acetone	20	U
107028	Acrolein	15	U
107131	Acrylonitrile	6.9	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
75150	Carbon disulfide	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&p-Xylenes	2.0	U
75092	Methylene chloride	5.0	1.8 J
95476	O-Xylene	1.0	U
100425	Styrene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

**Total Target Concentration 1.8**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\50427.txt

**Formle/1f**  
ORGANICS VOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0029

<i>Sample Number:</i> AB74913	<i>Matrix:</i> Water
<i>Client Id:</i> TB121202	<i>Initial Volume:</i> 5ml
<i>Data File:</i> FB8435	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 17 Dec 2002 11:54	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/13/2002-NA	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		column bleed	4.720	3.3 J

*Total Tentatively Identified Concentration*      3.3

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\50427.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0030

**Sample Number:** AB74903      **Matrix:** Water  
**Client Id:** FRGW-07      **Initial Volume:** 1000ml  
**Data File:** FC4519      **Final Volume:** 1ml  
**Date Analyzed:** 15 Dec 2002 16:09      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/02-12/15/02      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
91576	2-Methylnaphthalene	10	U
88744	2-Nitroaniline	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
101553	4-Bromophenyl-phenylether	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benzidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	2.3 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	1.4 JB
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	U
98953	Nitrobenzene	10	U
85018	Phenanthrene	10	U
129000	Pyrene	10	U

**Total Target Concentration 3.7**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\23210.txt

**Formle/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0031

<b>Sample Number:</b> AB74903	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-07	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FC4519	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 15 Dec 2002 16:09	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/13/02-12/15/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1		unknown	3.900	6.6 J $\beta$
2		unknown	4.320	26 J $\beta$
3		unknown	4.490	7.8 J $\beta$
4		unknown	4.680	22 J $\beta$
5		unknown	11.410	22 J $\beta$
6		unknown	13.380	6.4 J $\beta$
7		unknown	14.500	48 J $\beta$
8		unknown	14.700	14 J $\beta$
9		unknown	15.650	12 J $\beta$
10		unknown	15.840	12 J $\beta$
11	301-02-0	9-Octadecenamide, (Z)-	16.320	24 J $\beta$
12		unknown	16.710	11 J $\beta$
13		unknown	17.770	10 J $\beta$

**Total Tentatively Identified Concentration**      220

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\23210.txt

**Form 1**  
ORGANICS SEMIVOLATILE REPORT

**Sample Number:** AB74904      **Matrix:** Water  
**Client Id:** FRGW-01      **Initial Volume:** 1000ml  
**Data File:** FC4520      **Final Volume:** 1ml  
**Date Analyzed:** 15 Dec 2002 16:35      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/02-12/15/02      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0032

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
91576	2-Methylnaphthalene	10	U
88744	2-Nitroaniline	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
101553	4-Bromophenyl-phenylether	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	1.9 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	1.4 JB
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	U
98953	Nitrobenzene	10	U
85018	Phenanthrene	10	U
129000	Pyrene	10	U

**Total Target Concentration 3.3**

U - Indicates the compound was analyzed but not detected.  
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.  
B - Indicates the analyte was found in the blank as well as in the sample.  
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\23210.txt



**Formle/1f**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0033

<b>Sample Number:</b> AB74904	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-01	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FC4520	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 15 Dec 2002 16:35	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/13/02-12/15/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration ug/L</i>
1		unknown	3.900	6.0 J $\beta$
2		unknown	4.320	24 J $\beta$
3		unknown	4.480	7.0 J $\beta$
4		unknown	4.680	19 J $\beta$
5	54-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,	8.480	23 J
6		unknown	11.410	24 J $\beta$
7	625-08-1	Butanoic acid, 3-hydroxy-3-methyl-	13.180	7.0 J
8		unknown	13.380	10 J $\beta$
9		unknown	14.510	50 J $\beta$
10		unknown	14.690	21 J $\beta$
11		unknown	15.660	15 J $\beta$
12		unknown	15.840	15 J $\beta$
13	301-02-0	9-Octadecenamide, (Z)-	16.330	23 J $\beta$
14		unknown	16.730	15 J $\beta$
15		unknown	17.760	13 J $\beta$

**Total Tentatively Identified Concentration      270**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\23210.txt

## ORGANICS SEMIVOLATILE REPORT

Sample Number: AB74905(20X)

Matrix: Water

Client Id: FRGW-02

Initial Volume: 1000ml

Data File: FE1296

Final Volume: 1ml

Date Analyzed: 17 Dec 2002 13:32

Dilution Factor: 20

Date Received/Extracted: 12/13/02-12/15/02

Percent Solids: 0

Column: Supelco 105 m volcol col,.5 mm id, 3.0 um film

HC 0034

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	200	U
95501	1,2-Dichlorobenzene	200	U
122667	1,2-Diphenylhydrazine	200	U
541731	1,3-Dichlorobenzene	200	U
106467	1,4-Dichlorobenzene	200	U
121142	2,4-Dinitrotoluene	200	U
606202	2,6-Dinitrotoluene	200	U
91587	2-Chloronaphthalene	200	U
91576	2-Methylnaphthalene	200	87 J
88744	2-Nitroaniline	200	U
91941	3,3'-Dichlorobenzidine	200	U
99092	3-Nitroaniline	200	U
101553	4-Bromophenyl-phenylether	200	U
106478	4-Chloroaniline	200	U
7005723	4-Chlorophenyl-phenylether	200	U
100016	4-Nitroaniline	200	U
83329	Acenaphthene	200	U
208968	Acenaphthylene	200	U
120127	Anthracene	200	U
92875	Benzidine	400	U
56553	Benzo[a]anthracene	200	U
50328	Benzo[a]pyrene	200	U
205992	Benzo[b]fluoranthene	200	U
191242	Benzo[g,h,i]perylene	200	U
207089	Benzo[k]fluoranthene	200	U
111911	Bis(2-Chloroethoxy)methane	200	U
111444	Bis(2-Chloroethyl)Ether	200	U
108601	Bis(2-Chloroisopropyl)ether	200	U
117817	Bis(2-Ethylhexyl)phthalate	200	U
85687	Butylbenzylphthalate	200	U
86748	Carbazole	200	U
218019	Chrysene	200	U
117840	DI-n-octylphthalate	200	U
84742	Di-n-butylphthalate	200	U
53703	Dibenzo[a,h]Anthracene	200	U
132649	Dibenzofuran	200	U
84662	Diethylphthalate	200	U
131113	Dimethylphthalate	200	U
206440	Fluoranthene	200	U
86737	Fluorene	200	U
118741	Hexachlorobenzene	200	U
87683	Hexachlorobutadiene	200	U
77474	Hexachlorocyclopentadiene	200	U
67721	Hexachloroethane	200	U
193395	Indeno[1,2,3-cd]pyrene	200	U
78591	Isophorone	200	U
621647	N-Nitroso-Di-N-Propylamine	200	U
62759	N-Nitrosodimethylamine	200	U
86306	N-Nitrosodiphenylamine	200	U
91203	Naphthalene	200	1600
98953	Nitrobenzene	200	U
85018	Phenanthrene	200	U
129000	Pyrene	200	U

Total Target Concentration 1700

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\23210.txt

**Formle/If**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0035

<b>Sample Number:</b> AB74905(20X)	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-02	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FE1296	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 17 Dec 2002 13:32	<b>Dilution Factor:</b> 20
<b>Date Received/Extracted:</b> 12/13/02-12/15/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1	108-67-8	Benzene, 1,3,5-trimethyl-	4.560	330 <i>J</i>
2	611-14-3	Benzene, 1-ethyl-2-methyl-	4.580	180 <i>J</i>
3	95-63-6	Benzene, 1,2,4-trimethyl-	4.630	110 <i>J</i>
4	95-63-6	Benzene, 1,2,4-trimethyl-	4.830	470 <i>J</i>
5	622-96-8	Benzene, 1-ethyl-4-methyl-	5.040	180 <i>J</i>
6	496-11-7	1H-Indene, 2,3-dihydro-	5.140	250 <i>J</i>
7	766-97-2	Benzene, 1-ethynyl-4-methyl-	5.210	170 <i>J</i>
8	767-59-9	1H-Indene, 1-methyl-	5.840	170 <i>J</i>
9	767-59-9	1H-Indene, 1-methyl-	5.870	120 <i>J</i>
10	90-12-0	Naphthalene, 1-methyl-	6.640	92 <i>J</i>

**Total Tentatively Identified Concentration      2100**

***A* - Indicates an aldol condensate.**

***J* - Indicates an estimated value.**

***B* - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\23210.txt

# Form 1

## ORGANICS SEMIVOLATILE REPORT

**Sample Number:** AB74906 **Matrix:** Water  
**Client Id:** FB121202 **Initial Volume:** 1000ml  
**Data File:** FE1273 **Final Volume:** 1ml  
**Date Analyzed:** 15 Dec 2002 19:16 **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/02-12/15/02 **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0036

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
95954	2,4,5-Trichlorophenol	10	U
88062	2,4,6-Trichlorophenol	10	U
120832	2,4-Dichlorophenol	10	U
105679	2,4-Dimethylphenol	10	U
51285	2,4-Dinitrophenol	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
95578	2-Chlorophenol	10	U
91576	2-Methylnaphthalene	10	U
95487	2-Methylphenol	10	U
88744	2-Nitroaniline	10	U
88755	2-Nitrophenol	10	U
106445	3&4-Methylphenol	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
534521	4,6-Dinitro-2-methylphenol	10	U
101553	4-Bromophenyl-phenylether	10	U
59507	4-Chloro-3-methylphenol	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
100027	4-Nitrophenol	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benzidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	1.6 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	U
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	U
98953	Nitrobenzene	10	U
87865	Pentachlorophenol	10	U
85018	Phenanthrene	10	U
108952	Phenol	10	U
129000	Pyrene	10	U

**Total Target Concentration 1.6**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\30100.txt

*Form 1e/1f*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0037

<i>Sample Number:</i> AB74906	<i>Matrix:</i> Water
<i>Client Id:</i> FB121202	<i>Initial Volume:</i> 1000ml
<i>Data File:</i> FE1273	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 15 Dec 2002 19:16	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/13/02-12/15/02	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1	108-88-3	Benzene, methyl-	2.070	8.2 J $\beta$
2		unknown	3.730	7.8 J
3		unknown	4.130	36 J $\beta$
4	-00-0	TETRAHYDROGERANYL BUTYRATE	4.250	5.6 J
5		unknown	4.420	16 J $\beta$
6		unknown	4.430	13 J $\beta$
7		unknown	8.560	16 J $\beta$
8	301-02-0	9-Octadecenamide, (Z)-	11.100	21 J $\beta$
9		unknown	12.700	12 J $\beta$

*Total Tentatively Identified Concentration*      140

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\30100.txt

# Form1

## ORGANICS SEMIVOLATILE REPORT

HC 0038

**Sample Number:** AB74907(20X)      **Matrix:** Water  
**Client Id:** FRGW-03      **Initial Volume:** 1000ml  
**Data File:** FE1293      **Final Volume:** 1ml  
**Date Analyzed:** 17 Dec 2002 12:28      **Dilution Factor:** 20  
**Date Received/Extracted:** 12/13/02-12/15/02      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	200	U
95501	1,2-Dichlorobenzene	200	U
122667	1,2-Diphenylhydrazine	200	U
541731	1,3-Dichlorobenzene	200	U
106467	1,4-Dichlorobenzene	200	U
95954	2,4,5-Trichlorophenol	200	U
88062	2,4,6-Trichlorophenol	200	U
120832	2,4-Dichlorophenol	200	U
105679	2,4-Dimethylphenol	200	U
51285	2,4-Dinitrophenol	200	U
121142	2,4-Dinitrotoluene	200	U
606202	2,6-Dinitrotoluene	200	U
91587	2-Chloronaphthalene	200	U
95578	2-Chlorophenol	200	U
91576	2-Methylnaphthalene	200	70 J
95487	2-Methylphenol	200	U
88744	2-Nitroaniline	200	U
88755	2-Nitrophenol	200	U
106445	3&4-Methylphenol	200	U
91941	3,3'-Dichlorobenzidine	200	U
99092	3-Nitroaniline	200	U
534521	4,6-Dinitro-2-methylphenol	200	U
101553	4-Bromophenyl-phenylether	200	U
59507	4-Chloro-3-methylphenol	200	U
106478	4-Chloroaniline	200	U
7005723	4-Chlorophenyl-phenylether	200	U
100016	4-Nitroaniline	200	U
100027	4-Nitrophenol	200	U
83329	Acenaphthene	200	U
208968	Acenaphthylene	200	30 J
120127	Anthracene	200	U
92875	Benzidine	400	U
56553	Benzo[a]anthracene	200	U
50328	Benzo[a]pyrene	200	U
205992	Benzo[b]fluoranthene	200	U
191242	Benzo[g,h,i]perylene	200	U
207089	Benzo[k]fluoranthene	200	U
111911	Bis(2-Chloroethoxy)methane	200	U
111444	Bis(2-Chloroethyl)Ether	200	U
108601	Bis(2-Chloroisopropyl)ether	200	U
117817	Bis(2-Ethylhexyl)phthalate	200	U
85687	Butylbenzylphthalate	200	U
86748	Carbazole	200	U
218019	Chrysene	200	U
117840	Di-n-octylphthalate	200	U
84742	Di-n-butylphthalate	200	U
53703	Dibenzo[a,h]Anthracene	200	U
132649	Dibenzofuran	200	U
84662	Diethylphthalate	200	U
131113	Dimethylphthalate	200	U
206440	Fluoranthene	200	U
86737	Fluorene	200	U
118741	Hexachlorobenzene	200	U
87683	Hexachlorobutadiene	200	U
77474	Hexachlorocyclopentadiene	200	U
67721	Hexachloroethane	200	U
193395	Indeno[1,2,3-cd]pyrene	200	U
78591	Isophorone	200	U
621647	N-Nitroso-Di-N-Propylamine	200	U
62759	N-Nitrosodimethylamine	200	U
86306	N-Nitrosodiphenylamine	200	U
91203	Naphthalene	200	3200
98953	Nitrobenzene	200	U
87865	Pentachlorophenol	200	U
85018	Phenanthrene	200	U
108952	Phenol	200	U
129000	Pyrene	200	U

**Total Target Concentration 3300**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\30100.txt

**Formle/If**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0039

<b>Sample Number:</b> AB74907(20X)	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-03	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FE1293	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 17 Dec 2002 12:28	<b>Dilution Factor:</b> 20
<b>Date Received/Extracted:</b> 12/13/02-12/15/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration ug/L</i>
1	108-88-3	Benzene, methyl-	2.070	17000 <i>J</i>
2	100-41-4	Benzene, ethyl-	3.450	1300 <i>J</i>
3	1330-20-7	XYLENE	3.570	4900 <i>J</i>
4	100-42-5	Styrene	3.860	10000 <i>J</i>
5	611-14-3	Benzene, 1-ethyl-2-methyl-	4.560	270 <i>J</i>
6	622-96-8	Benzene, 1-ethyl-4-methyl-	4.580	160 <i>J</i>
7	95-63-6	Benzene, 1,2,4-trimethyl-	4.630	170 <i>J</i>
8	25013-15-4	Benzene, ethenylmethyl-	4.840	1300 <i>J</i>
9	611-15-4	Benzene, 1-ethenyl-2-methyl-	4.880	210 <i>J</i>
10	611-15-4	Benzene, 1-ethenyl-2-methyl-	5.080	120 <i>J</i>
11	496-11-7	1H-Indene, 2,3-dihydro-	5.140	220 <i>J</i>
12	95-13-6	1H-Indene	5.210	6600 <i>J</i>
13	767-59-9	1H-Indene, 1-methyl-	5.850	110 <i>J</i>
14	767-59-9	1H-Indene, 1-methyl-	5.870	110 <i>J</i>
15	83-33-0	1H-Inden-1-one, 2,3-dihydro-	6.490	460 <i>J</i>

**Total Tentatively Identified Concentration      43000**

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

**Control File** h:\import\30100.txt

**Form I**  
ORGANICS SEMIVOLATILE REPORT

**Sample Number:** AB74908(MS:AB7) **Matrix:** Water  
**Client Id:** FRGW-03 (MS) **Initial Volume:** 1000ml  
**Data File:** FE1294 **Final Volume:** 1ml  
**Date Analyzed:** 17 Dec 2002 12:49 **Dilution Factor:** 20  
**Date Received/Extracted:** 12/13/02-12/15/02 **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0040

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	13	78
95501	1,2-Dichlorobenzene	14	76
122667	1,2-Diphenylhydrazine	9.8	85
541731	1,3-Dichlorobenzene	16	77
106467	1,4-Dichlorobenzene	13	76
95954	2,4,5-Trichlorophenol	12	U
88062	2,4,6-Trichlorophenol	13	69
120832	2,4-Dichlorophenol	11	66
105679	2,4-Dimethylphenol	9.8	75
51285	2,4-Dinitrophenol	62	U
121142	2,4-Dinitrotoluene	8.0	60
606202	2,6-Dinitrotoluene	11	72
91587	2-Chloronaphthalene	9.2	72
95578	2-Chlorophenol	9.8	65
91576	2-Methylnaphthalene	99	66 J
95487	2-Methylphenol	120	U
88744	2-Nitroaniline	42	U
88755	2-Nitrophenol	13	65
106445	3&4-Methylphenol	110	U
91941	3,3'-Dichlorobenzidine	150	59 J
99092	3-Nitroaniline	78	U
534521	4,6-Dinitro-2-methylphenol	7.2	35
101553	4-Bromophenyl-phenylether	10	77
59507	4-Chloro-3-methylphenol	7.6	U
106478	4-Chloroaniline	100	U
7005723	4-Chlorophenyl-phenylether	9.8	74
100016	4-Nitroaniline	65	U
100027	4-Nitrophenol	5.4	U
83329	Acenaphthene	7.2	88
208968	Acenaphthylene	7.2	98
120127	Anthracene	9.2	73
92875	Benazidine	220	U
56553	Benzo[a]anthracene	7.6	80
50328	Benzo[a]pyrene	7.8	67
205992	Benzo[b]fluoranthene	9.4	66
191242	Benzo[g,h,i]perylene	9.6	65
207089	Benzo[k]fluoranthene	7.2	76
111911	Bis(2-Chloroethoxy)methane	6.4	78
111444	Bis(2-Chloroethyl)Ether	9.6	70
108601	Bis(2-Chloroisopropyl)ether	9.0	78
117817	Bis(2-Ethylhexyl)phthalate	14	72 B
85687	Butylbenzylphthalate	13	72
86748	Carbazole	7.8	U
218019	Chrysene	11	88
117840	Di-n-octylphthalate	11	56
84742	Di-n-butylphthalate	42	74
53703	Dibenzo[a,h]Anthracene	8.2	60
132649	Dibenzofuran	73	U
84662	Diethylphthalate	8.6	74
131113	Dimethylphthalate	8.0	76
206440	Fluoranthene	9.2	78
86737	Fluorene	6.8	83
118741	Hexachlorobenzene	8.6	80
87683	Hexachlorobutadiene	16	77
77474	Hexachlorocyclopentadiene	110	U
67721	Hexachloroethane	22	80
193395	Indeno[1,2,3-cd]pyrene	8.2	63
78591	Isophorone	5.6	70
621647	N-Nitroso-Di-N-Propylamine	9.8	69
62759	N-Nitrosodimethylamine	9.4	41
86306	N-Nitrosodiphenylamine	12	71
91203	Naphthalene	9.4	3200
98953	Nitrobenzene	7.0	85
87865	Pentachlorophenol	11	30
85018	Phenanthrene	7.0	98
108952	Phenol	2.8	30
129000	Pyrene	11	86

**Total Target Concentration 6900**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*



**Formle/1f**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0041

<b>Sample Number:</b> AB74908(MS:AB7490	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-03 (MS)	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FE1294	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 17 Dec 2002 12:49	<b>Dilution Factor:</b> 20
<b>Date Received/Extracted:</b> 12/13/02-12/15/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration ug/L</i>
1	108-88-3	Benzene, methyl-	2.070	15000 <i>J</i>
2	100-41-4	Benzene, ethyl-	3.450	1100 <i>J</i>
3	1330-20-7	XYLENE	3.570	4200 <i>J</i>
4	100-42-5	Styrene	3.860	9000 <i>J</i>
5	611-14-3	Benzene, 1-ethyl-2-methyl-	4.560	220 <i>J</i>
6	611-14-3	Benzene, 1-ethyl-2-methyl-	4.580	130 <i>J</i>
7	108-67-8	Benzene, 1,3,5-trimethyl-	4.630	140 <i>J</i>
8	83-33-0	1H-Inden-1-one, 2,3-dihydro-	6.490	520 <i>J</i>

**Total Tentatively Identified Concentration      30000**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\34236.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

**Sample Number:** AB74909(MSD:AB

**Matrix:** Water

**Client Id:** FRGW-03 (MSD)

**Initial Volume:** 1000ml

**Data File:** FE1295

**Final Volume:** 1ml

**Date Analyzed:** 17 Dec 2002 13:11

**Dilution Factor:** 20

**Date Received/Extracted:** 12/13/02-12/15/02

**Percent Solids:** 0

**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

HC 0042

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	13	71
95501	1,2-Dichlorobenzene	14	68
122667	1,2-Diphenylhydrazine	9.8	82
541731	1,3-Dichlorobenzene	16	68
106467	1,4-Dichlorobenzene	13	69
95954	2,4,5-Trichlorophenol	12	U
88062	2,4,6-Trichlorophenol	13	73
120832	2,4-Dichlorophenol	11	65
105679	2,4-Dimethylphenol	9.8	76
51285	2,4-Dinitrophenol	62	U
121142	2,4-Dinitrotoluene	8.0	62
606202	2,6-Dinitrotoluene	11	70
91587	2-Chloronaphthalene	9.2	71
95578	2-Chlorophenol	9.8	62
91576	2-Methylnaphthalene	99	72 J
95487	2-Methylphenol	120	U
88744	2-Nitroaniline	42	U
88755	2-Nitrophenol	13	62
106445	3&4-Methylphenol	110	U
91941	3,3'-Dichlorobenzidine	150	56 J
99092	3-Nitroaniline	78	U
534521	4,6-Dinitro-2-methylphenol	7.2	34
101553	4-Bromophenyl-phenylether	10	74
59507	4-Chloro-3-methylphenol	7.6	69
106478	4-Chloroaniline	100	U
7005723	4-Chlorophenyl-phenylether	9.8	73
100016	4-Nitroaniline	65	U
100027	4-Nitrophenol	5.4	29
83329	Acenaphthene	7.2	89
208968	Acenaphthylene	7.2	110
120127	Anthracene	9.2	74
92875	Benzidine	220	U
56553	Benzo[a]anthracene	7.6	78
50328	Benzo[a]pyrene	7.8	66
205992	Benzo[b]fluoranthene	9.4	67
191242	Benzo[g,h,i]perylene	9.6	66
207089	Benzo[k]fluoranthene	7.2	72
111911	Bis(2-Chloroethoxy)methane	6.4	76
111444	Bis(2-Chloroethyl)Ether	9.6	71
108601	Bis(2-Chloroisopropyl)ether	9.0	82
117817	Bis(2-Ethylhexyl)phthalate	14	67 B
85687	Butylbenzylphthalate	13	69
86748	Carbazole	7.8	U
218019	Chrysene	11	86
117840	DI-n-octylphthalate	11	53
84742	DI-n-butylphthalate	42	73
53703	Dibenzo[a,h]Anthracene	8.2	54
132649	Dibenzofuran	73	U
84562	Diethylphthalate	8.6	74
131113	Dimethylphthalate	8.0	77
206440	Fluoranthene	9.2	76
86737	Fluorene	6.8	84
118741	Hexachlorobenzene	8.6	75
87683	Hexachlorobutadiene	16	78
77474	Hexachlorocyclopentadiene	110	U
67721	Hexachloroethane	22	79
193395	Indeno[1,2,3-cd]pyrene	8.2	65
78591	Isophorone	5.6	69
621647	N-Nitroso-Di-N-Propylamine	9.8	66
62759	N-Nitrosodimethylamine	9.4	39
86306	N-Nitrosodiphenylamine	12	68
91203	Naphthalene	9.4	3300
98953	Nitrobenzene	7.0	75
87865	Pentachlorophenol	11	29
85018	Phenanthrene	7.0	97
108952	Phenol	2.8	30
129000	Pyrene	11	82

**Total Target Concentration 7000**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\34236.txt

**Formle/If**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0043

<b>Sample Number:</b> AB74909(MSD:AB749	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-03 (MSD)	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FE1295	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 17 Dec 2002 13:11	<b>Dilution Factor:</b> 20
<b>Date Received/Extracted:</b> 12/13/02-12/15/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration ug/L</i>
1	108-88-3	Benzene, methyl-	2.070	14000 <i>J</i>
2	100-41-4	Benzene, ethyl-	3.450	1100 <i>J</i>
3	108-38-3	Benzene, 1,3-dimethyl-	3.570	4100 <i>J</i>
4	100-42-5	Styrene	3.860	8700 <i>J</i>
5	611-14-3	Benzene, 1-ethyl-2-methyl-	4.560	240 <i>J</i>
6	611-14-3	Benzene, 1-ethyl-2-methyl-	4.580	130 <i>J</i>
7	95-63-6	Benzene, 1,2,4-trimethyl-	4.630	150 <i>J</i>
8	61141-97-7	Benzene, 1,1'-(1-ethenyl-1,3-propanediyl	5.080	100 <i>J</i>

**Total Tentatively Identified Concentration**      29000

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\34236.txt

**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0044

**Sample Number:** AB74910      **Matrix:** Water  
**Client Id:** FRGW-05      **Initial Volume:** 1000ml  
**Data File:** FE1274      **Final Volume:** 1ml  
**Date Analyzed:** 15 Dec 2002 19:37      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/02-12/15/02      **Percent Solids:** 0  
**Column:** Supelco 105 m volcol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
91576	2-Methylnaphthalene	10	U
88744	2-Nitroaniline	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
101553	4-Bromophenyl-phenylether	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benzidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	1.4 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	U
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	7.5 J
98953	Nitrobenzene	10	U
85018	Phenanthrene	10	U
129000	Pyrene	10	U

**Total Target Concentration 8.9**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\24058.txt

*Form 1e/1f*  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0045

<i>Sample Number:</i> AB74910	<i>Matrix:</i> Water
<i>Client Id:</i> FRGW-05	<i>Initial Volume:</i> 1000ml
<i>Data File:</i> FE1274	<i>Final Volume:</i> 1ml
<i>Date Analyzed:</i> 15 Dec 2002 19:37	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/13/02-12/15/02	<i>Percent Solids:</i> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration ug/L</i>
1	95-47-6	Benzene, 1,2-dimethyl-	3.580	8.2 <i>J</i>
2	100-42-5	Styrene	3.850	29 <i>J</i>
3		unknown	4.130	20 <i>J B</i>
4		unknown	4.420	9.3 <i>J B</i>
5		unknown	4.430	6.8 <i>J B</i>
6	95-13-6	1H-Indene	5.210	20 <i>J</i>
7		unknown	8.560	14 <i>J B</i>
8	301-02-0	9-Octadecenamide, (Z)-	11.100	20 <i>J B</i>
9		unknown	12.700	11 <i>J B</i>

*Total Tentatively Identified Concentration*      140

*A - Indicates an aldol condensate.*

*J - Indicates an estimated value.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*Control File* h:\import\24058.txt

**Form1**  
ORGANICS SEMIVOLATILE REPORT

HC 0046

**Sample Number:** AB74911      **Matrix:** Water  
**Client Id:** FRGW-06      **Initial Volume:** 1000ml  
**Data File:** FE1275      **Final Volume:** 1ml  
**Date Analyzed:** 15 Dec 2002 19:59      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/02-12/15/02      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
91576	2-Methylnaphthalene	10	U
88744	2-Nitroaniline	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
101553	4-Bromophenyl-phenylether	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	1.2 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	U
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	4.0 J
98953	Nitrobenzene	10	U
85018	Phenanthrene	10	U
129000	Pyrene	10	U

**Total Target Concentration 5.2**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Control File h:\import\24058.txt

**Formle/1f**  
ORGANICS SEMIVOLATILE REPORT  
*Tentatively Identified Compounds*

HC 0047

<b>Sample Number:</b> AB74911	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-06	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FE1275	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 15 Dec 2002 19:59	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/13/02-12/15/02	<b>Percent Solids:</b> 0

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration</i> ug/L
1	100-42-5	Styrene	3.860	13 J
2		unknown	4.130	21 J $\beta$
3		unknown	4.420	10 J $\beta$
4		unknown	4.430	8.0 J $\beta$
5	95-13-6	1H-Indene	5.210	8.6 J
6		unknown	8.560	15 J $\beta$
7	301-02-0	9-Octadecenamide, (Z)-	11.100	14 J $\beta$
8		unknown	12.700	9.3 J $\beta$

**Total Tentatively Identified Concentration      99**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\24058.txt

**Form I**  
ORGANICS SEMIVOLATILE REPORT

HC 0048

**Sample Number:** AB74912      **Matrix:** Water  
**Client Id:** FRGW-08      **Initial Volume:** 1000ml  
**Data File:** FC4521      **Final Volume:** 1ml  
**Date Analyzed:** 15 Dec 2002 17:03      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/13/02-12/15/02      **Percent Solids:** 0  
**Column:** Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
120821	1,2,4-Trichlorobenzene	10	U
95501	1,2-Dichlorobenzene	10	U
122667	1,2-Diphenylhydrazine	10	U
541731	1,3-Dichlorobenzene	10	U
106467	1,4-Dichlorobenzene	10	U
121142	2,4-Dinitrotoluene	10	U
606202	2,6-Dinitrotoluene	10	U
91587	2-Chloronaphthalene	10	U
91576	2-Methylnaphthalene	10	U
88744	2-Nitroaniline	10	U
91941	3,3'-Dichlorobenzidine	10	U
99092	3-Nitroaniline	10	U
101553	4-Bromophenyl-phenylether	10	U
106478	4-Chloroaniline	10	U
7005723	4-Chlorophenyl-phenylether	10	U
100016	4-Nitroaniline	10	U
83329	Acenaphthene	10	U
208968	Acenaphthylene	10	U
120127	Anthracene	10	U
92875	Benidine	20	U
56553	Benzo[a]anthracene	10	U
50328	Benzo[a]pyrene	10	U
205992	Benzo[b]fluoranthene	10	U
191242	Benzo[g,h,i]perylene	10	U
207089	Benzo[k]fluoranthene	10	U
111911	Bis(2-Chloroethoxy)methane	10	U
111444	Bis(2-Chloroethyl)Ether	10	U
108601	Bis(2-Chloroisopropyl)ether	10	U
117817	Bis(2-Ethylhexyl)phthalate	10	1.5 JB
85687	Butylbenzylphthalate	10	U
86748	Carbazole	10	U
218019	Chrysene	10	U
117840	Di-n-octylphthalate	10	U
84742	Di-n-butylphthalate	10	1.1 JB
53703	Dibenzo[a,h]Anthracene	10	U
132649	Dibenzofuran	10	U
84662	Diethylphthalate	10	U
131113	Dimethylphthalate	10	U
206440	Fluoranthene	10	U
86737	Fluorene	10	U
118741	Hexachlorobenzene	10	U
87683	Hexachlorobutadiene	10	U
77474	Hexachlorocyclopentadiene	10	U
67721	Hexachloroethane	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
78591	Isophorone	10	U
621647	N-Nitroso-Di-N-Propylamine	10	U
62759	N-Nitrosodimethylamine	10	U
86306	N-Nitrosodiphenylamine	10	U
91203	Naphthalene	10	6.1 J
98953	Nitrobenzene	10	U
85018	Phenanthrene	10	U
129000	Pyrene	10	U

**Total Target Concentration 8.7**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Control File** h:\import\23210.txt



**Formle/If**  
**ORGANICS SEMIVOLATILE REPORT**  
**Tentatively Identified Compounds**

HC 0049

<b>Sample Number:</b> AB74912	<b>Matrix:</b> Water
<b>Client Id:</b> FRGW-08	<b>Initial Volume:</b> 1000ml
<b>Data File:</b> FC4521	<b>Final Volume:</b> 1ml
<b>Date Analyzed:</b> 15 Dec 2002 17:03	<b>Dilution Factor:</b> 1
<b>Date Received/Extracted:</b> 12/13/02-12/15/02	<b>Percent Solids:</b> 0

Hit#	Cas Number	Compound	RT	Concentration ug/L
1	108-88-3	Benzene, methyl-	2.550	33 J $\beta$
2		unknown	4.040	15 J $\beta$
3		unknown	4.320	23 J $\beta$
4		unknown	4.650	20 J $\beta$
5	95-13-6	1H-Indene	5.780	8.9 J
6		unknown	11.400	20 J $\beta$
7		unknown	13.380	9.4 J $\beta$
8		unknown	14.500	45 J $\beta$
9		unknown	14.700	23 J $\beta$
10		unknown	15.660	17 J $\beta$
11		unknown	15.840	17 J $\beta$
12	301-02-0	9-Octadecenamide, (Z)-	16.320	20 J $\beta$
13		unknown	16.720	16 J $\beta$
14		unknown	17.760	14 J $\beta$
15		unknown	18.910	7.6 J

**Total Tentatively Identified Concentration      290**

**A - Indicates an aldol condensate.**

**J - Indicates an estimated value.**

**B - Indicates the analyte was found in the blank as well as in the sample.**

**Control File** h:\import\23210.txt

**Form1**  
**ORGANICS PCB REPORT**

HC 0050

**Sample Number:** AB74906

**Matrix:** Water

**Client Id:** FB121202

**Initial Volume:** 1000ml

**Data File:** GC44820

**Final Volume:** 10ml

**Date Analyzed:** 17 Dec 2002 9:09

**Dilution Factor:** 1

**Date Received/Extracted:** 12/14/02-12/16/02

**Percent Solids:** 0

**Column:** J&W-Scientific db-608/1701 30m .32mmID

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: ug/L )</i>
12674112	Aroclor-1016	0.50	U
11104282	Aroclor-1221	0.50	U
11141165	Aroclor-1232	0.50	U
53469219	Aroclor-1242	0.50	U
12672296	Aroclor-1248	0.50	U
11097691	Aroclor-1254	0.50	U
11096825	Aroclor-1260	0.50	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
ORGANICS PCB REPORT

HC 0051

**Sample Number:** AB74907      **Matrix:** Water  
**Client Id:** FRGW-03      **Initial Volume:** 1000ml  
**Data File:** GC44816      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 8:02      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/14/02-12/16/02      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
12674112	Aroclor-1016	0.50	U
11104282	Aroclor-1221	0.50	U
11141165	Aroclor-1232	0.50	U
53469219	Aroclor-1242	0.50	U
12672296	Aroclor-1248	0.50	U
11097691	Aroclor-1254	0.50	U
11096825	Aroclor-1260	0.50	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
**ORGANICS PCB REPORT**

HC 0052

**Sample Number:** AB74908(MS:AB7                      **Matrix:** Water  
**Client Id:** FRGW-03 (MS)                      **Initial Volume:** 450ml  
**Data File:** GC44817                      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 8:19                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/14/02-12/16/02                      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
12674112	Aroclor-1016	1.1	15
11104282	Aroclor-1221	1.1	UU
11141165	Aroclor-1232	1.1	UU
53469219	Aroclor-1242	1.1	UU
12672296	Aroclor-1248	1.1	UU
11097691	Aroclor-1254	1.1	UU
11096825	Aroclor-1260	1.1	16

**Total Target Concentration 31**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
**ORGANICS PCB REPORT**

HC 0053

**Sample Number:** AB74909(MSD:AB)      **Matrix:** Water  
**Client Id:** FRGW-03 (MSD)      **Initial Volume:** 450ml  
**Data File:** GC44818      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 8:36      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/14/02-12/16/02      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: ug/L )</i>
12674112	Aroclor-1016	1.1	15
11104282	Aroclor-1221	1.1	U
11141165	Aroclor-1232	1.1	U
53469219	Aroclor-1242	1.1	U
12672296	Aroclor-1248	1.1	U
11097691	Aroclor-1254	1.1	U
11096825	Aroclor-1260	1.1	17

**Total Target Concentration 32**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
ORGANICS PESTICIDE REPORT

HC 0054

**Sample Number:** AB74906      **Matrix:** Water  
**Client Id:** FB121202      **Initial Volume:** 1000ml  
**Data File:** GE1002      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 12:07      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/14/2002-12/16/02      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: ug/L )</i>
309002	Aldrin	0.10	U
319846	Alpha-BHC	0.10	U
319857	Beta-BHC	0.10	U
57749	Chlordane	0.20	U
319868	Delta-BHC	0.10	U
60571	Dieldrin	0.10	U
959988	Endosulfan I	0.10	U
33213659	Endosulfan II	0.10	U
1031078	Endosulfan Sulfate	0.10	U
72208	Endrin	0.10	U
7421934	Endrin Aldehyde	0.10	U
53494705	Endrin Ketone	0.10	U
58899	Gamma-BHC	0.10	U
76448	Heptachlor	0.10	U
1024573	Heptachlor Epoxide	0.10	U
72435	Methoxychlor	0.10	U
72548	P,P'-DDD	0.10	U
72559	P,P'-DDE	0.10	U
50293	P,P'-DDT	0.10	U
8001352	Toxaphene	1.0	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form I**  
**ORGANICS PESTICIDE REPORT**

HC 0055

**Sample Number:** AB74907                      **Matrix:** Water  
**Client Id:** FRGW-03                      **Initial Volume:** 1000ml  
**Data File:** GE1001                      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 11:51                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/14/2002-12/16/02                      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
309002	Aldrin	0.10	U
319846	Alpha-BHC	0.10	U
319857	Beta-BHC	0.10	U
57749	Chlordane	0.20	U
319868	Delta-BHC	0.10	U
60571	Dieldrin	0.10	U
959988	Endosulfan I	0.10	U
33213659	Endosulfan II	0.10	U
1031078	Endosulfan Sulfate	0.10	U
72208	Endrin	0.10	U
7421934	Endrin Aldehyde	0.10	U
53494705	Endrin Ketone	0.10	U
58899	Gamma-BHC	0.10	U
76448	Heptachlor	0.10	U
1024573	Heptachlor Epoxide	0.10	U
72435	Methoxychlor	0.10	U
72548	P,P'-DDD	0.10	U
72559	P,P'-DDE	0.10	U
50293	P,P'-DDT	0.10	U
8001352	Toxaphene	1.0	U

**Total Target Concentration 0**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

**Form1**  
**ORGANICS PESTICIDE REPORT**

HC 0056

**Sample Number:** AB74908(MS:AB7                      **Matrix:** Water  
**Client Id:** FRGW-03 (MS)                      **Initial Volume:** 450ml  
**Data File:** GE0998                      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 11:01                      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/14/2002-12/16/02                      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

<i>CAS #</i>	<i>Compound</i>	<i>PQL/MDL</i>	<i>Concentration (Units: ug/L )</i>
309002	Aldrin	0.044	2.1
319846	Alpha-BHC	0.044	2.2
319857	Beta-BHC	0.044	1.9
57749	Chlordane	0.44	U
319868	Delta-BHC	0.044	2.2
60571	Dieldrin	0.044	1.9
959988	Endosulfan I	0.044	2.1
33213659	Endosulfan II	0.044	2.2
1031078	Endosulfan Sulfate	0.044	2.5
72208	Endrin	0.044	2.2
7421934	Endrin Aldehyde	0.044	2.4
53494705	Endrin Ketone	0.044	2.4
58899	Gamma-BHC	0.044	2.1
76448	Heptachlor	0.044	2.2
1024573	Heptachlor Epoxide	0.044	2.1
72435	Methoxychlor	0.044	2.8
72548	P,P'-DDD	0.044	2.6
72559	P,P'-DDE	0.044	2.2
50293	P,P'-DDT	0.044	2.6
8001352	Toxaphene	2.2	U

**Total Target Concentration 41**

*U - Indicates the compound was analyzed but not detected.*  
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*  
*B - Indicates the analyte was found in the blank as well as in the sample.*  
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*



**Form I**  
**ORGANICS PESTICIDE REPORT**

HC 0057

**Sample Number:** AB74909(MSD:AB)      **Matrix:** Water  
**Client Id:** FRGW-03 (MSD)      **Initial Volume:** 450ml  
**Data File:** GE1000      **Final Volume:** 10ml  
**Date Analyzed:** 17 Dec 2002 11:35      **Dilution Factor:** 1  
**Date Received/Extracted:** 12/14/2002-12/16/02      **Percent Solids:** 0  
**Column:** J&W-Scientific db-608/1701 30m .32mmID

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L )
309002	Aldrin	0.044	2.1
319846	Alpha-BHC	0.044	2.1
319857	Beta-BHC	0.044	1.8
57749	Chlordane	0.44	U
319868	Delta-BHC	0.044	2.2
60571	Dieldrin	0.044	1.9
959988	Endosulfan I	0.044	2.0
33213659	Endosulfan II	0.044	2.2
1031078	Endosulfan Sulfate	0.044	2.4
72208	Endrin	0.044	2.3
7421934	Endrin Aldehyde	0.044	2.4
53494705	Endrin Ketone	0.044	2.4
58899	Gamma-BHC	0.044	2.1
76448	Heptachlor	0.044	2.1
1024573	Heptachlor Epoxide	0.044	2.1
72435	Methoxychlor	0.044	2.8
72548	P,P'-DDD	0.044	2.5
72559	P,P'-DDE	0.044	2.2
50293	P,P'-DDT	0.044	2.5
8001352	Toxaphene	2.2	U

**Total Target Concentration 40**

*U - Indicates the compound was analyzed but not detected.*

*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*

*B - Indicates the analyte was found in the blank as well as in the sample.*

*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Form1  
Inorganic Analysis Data SheetSample ID: AB74903  
Client Id: FRGW-07  
Matrix: AQUEOUS% Solid: 0  
Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	20
7440-39-3	Barium	50	ND	1	PEICP1	12/17/02	4393	W4393A	20
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	20
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	20
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	20
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	17
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	20
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	20

## Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

me  
12/19/02

# Form 1

## Inorganic Analysis Data Sheet

Sample ID: AB74904  
 Client Id: FRGW-01  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	22
7440-39-3	Barium	50	300	1	PEICP1	12/17/02	4393	W4393A	22
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	22
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	22
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	22
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	18
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	22
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	22

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

7/19/10  
12/19/10

# Form 1

## Inorganic Analysis Data Sheet

Sample ID: AB74905  
 Client Id: FRGW-02  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	23
7440-39-3	Barium	50	160	1	PEICP1	12/17/02	4393	W4393A	23
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	23
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	23
7439-92-1	Lead	5.0	6.3	1	PEICP1	12/17/02	4393	W4393A	23
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	19
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	23
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	23

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

2/29/10  
12/19/10

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74906  
 Client Id: FB121202  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	180	340	1	PEICP1	12/18/02	4393	W4393b	22
7440-36-0	Antimony	15	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-39-3	Barium	50	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-41-7	Beryllium	4.0	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-70-2	Calcium	2000	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-48-4	Cobalt	20	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-50-8	Copper	50	ND	1	PEICP1	12/17/02	4393	W4393A	24
7439-89-6	Iron	280	ND	1	PEICP1	12/17/02	4393	W4393A	24
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	24
7439-95-4	Magnesium	2000	ND	1	PEICP1	12/17/02	4393	W4393A	24
7439-96-5	Manganese	40	ND	1	PEICP1	12/17/02	4393	W4393A	24
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	22
7440-02-0	Nickel	50	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-09-7	Potassium	5000	ND	1	ICPRAD	12/18/02	4393	s4394b	38
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-23-5	Sodium	5000	ND	1	ICPRAD	12/18/02	4393	s4394b	38
7440-28-0	Thallium	10	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-62-2	Vanadium	50	ND	1	PEICP1	12/17/02	4393	W4393A	24
7440-66-6	Zinc	50	ND	1	PEICP1	12/17/02	4393	W4393A	24

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*[Handwritten signature]*  
12/17/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74907  
 Client Id: FRGW-03  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	180	240	1	PEICP1	12/18/02	4393	W4393b	13
7440-36-0	Antimony	15	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-39-3	Barium	50	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-41-7	Beryllium	4.0	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-70-2	Calcium	2000	46000	1	PEICP1	12/17/02	4393	W4393A	13
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-48-4	Cobalt	20	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-50-8	Copper	50	ND	1	PEICP1	12/17/02	4393	W4393A	13
7439-89-6	Iron	280	26000	1	PEICP1	12/17/02	4393	W4393A	13
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	13
7439-95-4	Magnesium	2000	3000	1	PEICP1	12/17/02	4393	W4393A	13
7439-96-5	Manganese	40	410	1	PEICP1	12/17/02	4393	W4393A	13
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	13
7440-02-0	Nickel	50	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-09-7	Potassium	5000	5400	1	ICPRAD	12/18/02	4393	s4394b	29
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-23-5	Sodium	5000	12000	1	ICPRAD	12/18/02	4393	s4394b	29
7440-28-0	Thallium	10	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-62-2	Vanadium	50	ND	1	PEICP1	12/17/02	4393	W4393A	13
7440-66-6	Zinc	50	ND	1	PEICP1	12/17/02	4393	W4393A	13

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature*  
12/19/02

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74908  
 Client Id: FRGW-03 (MS)  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	180	5000	1	PEICP1	12/18/02	4393	W4393b	15
7440-36-0	Antimony	15	520	1	PEICP1	12/17/02	4393	W4393A	15
7440-38-2	Arsenic	7.5	520	1	PEICP1	12/17/02	4393	W4393A	15
7440-39-3	Barium	50	540	1	PEICP1	12/17/02	4393	W4393A	15
7440-41-7	Beryllium	4.0	500	1	PEICP1	12/17/02	4393	W4393A	15
7440-43-9	Cadmium	3.5	510	1	PEICP1	12/17/02	4393	W4393A	15
7440-70-2	Calcium	2000	95000	1	PEICP1	12/17/02	4393	W4393A	15
7440-47-3	Chromium	50	520	1	PEICP1	12/17/02	4393	W4393A	15
7440-48-4	Cobalt	20	510	1	PEICP1	12/17/02	4393	W4393A	15
7440-50-8	Copper	50	510	1	PEICP1	12/17/02	4393	W4393A	15
7439-89-6	Iron	280	29000	1	PEICP1	12/17/02	4393	W4393A	15
7439-92-1	Lead	5.0	520	1	PEICP1	12/17/02	4393	W4393A	15
7439-95-4	Magnesium	2000	54000	1	PEICP1	12/17/02	4393	W4393A	15
7439-96-5	Manganese	40	900	1	PEICP1	12/17/02	4393	W4393A	15
7439-97-6	Mercury	0.70	9.5	1	HGCV1	12/16/02	4393	4393SW	15
7440-02-0	Nickel	50	500	1	PEICP1	12/17/02	4393	W4393A	15
7440-09-7	Potassium	5000	54000	1	ICPRAD	12/18/02	4393	s4394b	31
7782-49-2	Selenium	40	510	1	PEICP1	12/17/02	4393	W4393A	15
7440-22-4	Silver	20	510	1	PEICP1	12/17/02	4393	W4393A	15
7440-23-5	Sodium	5000	61000	1	ICPRAD	12/18/02	4393	s4394b	31
7440-28-0	Thallium	10	510	1	PEICP1	12/17/02	4393	W4393A	15
7440-62-2	Vanadium	50	510	1	PEICP1	12/17/02	4393	W4393A	15
7440-66-6	Zinc	50	520	1	PEICP1	12/17/02	4393	W4393A	15

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature*  
 12/19/02

# Form 1

## Inorganic Analysis Data Sheet

Sample ID: AB74909  
 Client Id: FRGW-03 (MSD)  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7429-90-5	Aluminum	180	5700	1	PEICP1	12/18/02	4393	W4393b	16
7440-36-0	Antimony	15	500	1	PEICP1	12/17/02	4393	W4393A	16
7440-38-2	Arsenic	7.5	510	1	PEICP1	12/17/02	4393	W4393A	16
7440-39-3	Barium	50	520	1	PEICP1	12/17/02	4393	W4393A	16
7440-41-7	Beryllium	4.0	480	1	PEICP1	12/17/02	4393	W4393A	16
7440-43-9	Cadmium	3.5	490	1	PEICP1	12/17/02	4393	W4393A	16
7440-70-2	Calcium	2000	89000	1	PEICP1	12/17/02	4393	W4393A	16
7440-47-3	Chromium	50	500	1	PEICP1	12/17/02	4393	W4393A	16
7440-48-4	Cobalt	20	490	1	PEICP1	12/17/02	4393	W4393A	16
7440-50-8	Copper	50	500	1	PEICP1	12/17/02	4393	W4393A	16
7439-89-6	Iron	280	27000	1	PEICP1	12/17/02	4393	W4393A	16
7439-92-1	Lead	5.0	500	1	PEICP1	12/17/02	4393	W4393A	16
7439-95-4	Magnesium	2000	51000	1	PEICP1	12/17/02	4393	W4393A	16
7439-96-5	Manganese	40	840	1	PEICP1	12/17/02	4393	W4393A	16
7439-97-6	Mercury	0.70	9.8	1	HGCV1	12/16/02	4393	4393SW	16
7440-02-0	Nickel	50	480	1	PEICP1	12/17/02	4393	W4393A	16
7440-09-7	Potassium	5000	51000	1	ICPRAD	12/18/02	4393	s4394b	32
7782-49-2	Selenium	40	490	1	PEICP1	12/17/02	4393	W4393A	16
7440-22-4	Silver	20	490	1	PEICP1	12/17/02	4393	W4393A	16
7440-23-5	Sodium	5000	57000	1	ICPRAD	12/18/02	4393	s4394b	32
7440-28-0	Thallium	10	500	1	PEICP1	12/17/02	4393	W4393A	16
7440-62-2	Vanadium	50	490	1	PEICP1	12/17/02	4393	W4393A	16
7440-66-6	Zinc	50	500	1	PEICP1	12/17/02	4393	W4393A	16

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

MS  
11.9.02



Form1  
Inorganic Analysis Data Sheet

Sample ID: AB74910  
Client Id: FRGW-05  
Matrix: AQUEOUS

% Solid: 0  
Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	25
7440-39-3	Barium	50	ND	1	PEICP1	12/17/02	4393	W4393A	25
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	25
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	25
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	25
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	23
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	25
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	25

Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

*Handwritten signature*  
12/16

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74911  
 Client Id: FRGW-06  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	26
7440-39-3	Barium	50	ND	1	PEICP1	12/17/02	4393	W4393A	26
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	26
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	26
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	26
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	24
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	26
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	26

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

ms  
1/10/06

# Form1

## Inorganic Analysis Data Sheet

Sample ID: AB74912  
 Client Id: FRGW-08  
 Matrix: AQUEOUS

% Solid: 0  
 Units: ug/L

Cas No.	Analyte	RL	Conc	Dil Fact	Instr	Analysis Date:	Prep Batch	File:	Seq Num
7440-38-2	Arsenic	7.5	ND	1	PEICP1	12/17/02	4393	W4393A	29
7440-39-3	Barium	50	ND	1	PEICP1	12/17/02	4393	W4393A	29
7440-43-9	Cadmium	3.5	ND	1	PEICP1	12/17/02	4393	W4393A	29
7440-47-3	Chromium	50	ND	1	PEICP1	12/17/02	4393	W4393A	29
7439-92-1	Lead	5.0	ND	1	PEICP1	12/17/02	4393	W4393A	29
7439-97-6	Mercury	0.70	ND	1	HGCV1	12/16/02	4393	4393SW	25
7782-49-2	Selenium	40	ND	1	PEICP1	12/17/02	4393	W4393A	29
7440-22-4	Silver	20	ND	1	PEICP1	12/17/02	4393	W4393A	29

### Flag Codes:

ND - Indicates Compound was not found above the detection/Reporting Limit

\* - Indicates Compound above calibration range

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 12/17/02

## Veritech Wet Chem Form 1 Summary

Lab #: AB74903

Lab #: AB74903

Sample Matrix: Aqueous

Sample ID: FRGW-07

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/20/02

Lab #: AB74904

Sample Matrix: Aqueous

Sample ID: FRGW-01

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/20/02

Lab #: AB74905

Sample Matrix: Aqueous

Sample ID: FRGW-02

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/20/02

Lab #: AB74906

Sample Matrix: Aqueous

Sample ID: FB121202

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/20/02

Lab #: AB74907

Sample Matrix: Aqueous

Sample ID: FRGW-03

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/20/02

Lab #: AB74908

Sample Matrix: Aqueous

Sample ID: FRGW-03 (MS)

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	0.17	mg/l	0.01	1	12/20/02

Lab #: AB74909

Sample Matrix: Aqueous

Sample ID: FRGW-03 (MSD)

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	0.18	mg/l	0.01	1	12/20/02

## Veritech Wet Chem Form 1 Summary

Lab #: AB74910

Lab #: AB74910

Sample Matrix: Aqueous

Sample ID: FRGW-05

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/20/02

Lab #: AB74911

Sample Matrix: Aqueous

Sample ID: FRGW-06

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/20/02

Lab #: AB74912

Sample Matrix: Aqueous

Sample ID: FRGW-08

Date Received: 12/13/02

Test Group Name: Cyanide (Water) 9010

Date Prepared: 12/20/02

Analyte	Concentration	Units	MDL/PQL	DF	Date Analyzed
Cyanide	ND	mg/l	0.01	1	12/20/02

## **APPENDIX J**

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### **SOIL VAPOR PACKAGE**



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REPORT DATE 12/12/02

PAULUS, SOKOLOWSKI & SARTOR, INC.  
67 MOUNTAIN BLVD. EXT.  
WARREN, NJ 07059  
ATTN: JOHN PASTORICK

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER: 2522-006-084

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMS-68167  
JOB NUMBER: 2522-006-084

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: FAR ROCKAWAY FORMER MGP, FAR ROCKAWAY, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
FRSV-01	02B32153	AIR	CT 4397	air special test
FRSV-02	02B32154	AIR	CT 3384	air special test
FRSV-03	02B32152	AIR	CT 4415	air special test
FRSV-04	02B32151	AIR	CT 3373	air special test
FRSV-06	02B32150	AIR	CT 4414	air special test

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033
MASSACHUSETTS MA0100	NEW HAMPSHIRE 2516
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036
NEW YORK ELAP 10899	RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

*Edward Denson 12/12/02*

SIGNATURE

DATE

Tod Kopyscinski  
Director of Operations

Sondra S. Kocot  
Quality Control Coordinator

Edward Denson  
Technical Director



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## RESULTS FOR METHOD TO-15

Lab ID Number: 02B32150  
Client ID Number: FRSV-06

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

### Analyte:

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Propene	21	36.1	0.5	0.9
Dichlorodifluoromethane (freon 12)	24	118.7	0.5	2.5
Chloromethane	ND	ND	0.5	1.0
1,2-Dichlorotetrafluoroethane (freon 114)	ND	ND	0.5	3.5
Vinyl Chloride	ND	ND	0.5	1.3
1,3 - Butadiene	ND	ND	0.5	1.1
Bromomethane	ND	ND	0.5	1.9
Chloroethane	ND	ND	0.5	1.3
Acetone	ND	ND	0.5	1.2
Trichlorofluoromethane (freon 11)	2.4	13.5	0.5	2.8
Ethanol	ND	ND	0.5	0.9
1,1-Dichloroethene	ND	ND	0.5	2.0
Methylene Chloride	1.2	4.2	0.5	1.7
1,1,2-Trichlorotrifluoroethane (freon 113)	ND	ND	0.5	3.8
Carbon Disulfide	ND	ND	0.5	1.6
trans-1,2-Dichloroethene	ND	ND	0.5	2.0
1,1-Dichloroethane	ND	ND	0.5	2.0
MTBE	ND	ND	0.5	1.8
Isopropyl Alcohol	2.0	4.9	0.5	1.2
2-Butanone (MEK)	ND	ND	0.5	1.5
cis-1,2-Dichloroethene	ND	ND	0.5	2.0
Hexane	ND	ND	0.5	1.8
Vinyl Acetate	ND	ND	0.5	1.8
Ethyl Acetate	ND	ND	0.5	1.8
Chloroform	ND	ND	0.5	2.4
Tetrahydrofuran	ND	ND	0.5	1.5
1,2-Dichloroethane	ND	ND	0.5	2.0
1,1,1-Trichloroethane	0.99	5.4	0.5	2.7
Benzene	0.65	2.1	0.5	1.6
Carbon Tetrachloride	ND	ND	0.5	3.1
Cyclohexane	ND	ND	0.5	1.7
1,2-Dichloropropane	ND	ND	0.5	2.3
Bromodichloromethane	ND	ND	0.5	3.4





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Lab ID Number: 02B32150  
Client ID Number: FRSV-06

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

**Analyte:**

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	0.5	2.7
Heptane	ND	ND	0.5	2.0
4-Methyl-2-pentanone(MIBK)	0.57	2.3	0.5	2.0
cis-1,3-Dichloropropene	ND	ND	0.5	2.3
trans-1,3-Dichloropropene	ND	ND	0.5	2.3
1,1,2-Trichloroethane	ND	ND	0.5	2.7
Toluene	ND	ND	0.5	1.9
2-Hexanone (MBK)	ND	ND	0.5	2.0
Dibromochloromethane	ND	ND	0.5	4.3
1,2-Dibromoethane	ND	ND	0.5	3.8
Tetrachloroethene	ND	ND	0.5	3.4
Chlorobenzene	ND	ND	0.5	2.3
Ethylbenzene	ND	ND	0.5	2.2
M/P Xylenes	ND	ND	0.5	2.2
Styrene	ND	ND	0.5	2.1
O-Xylene	ND	ND	0.5	2.2
1,1,2,2-Tetrachloroethane	ND	ND	0.5	3.4
1,3,5-Trimethylbenzene	ND	ND	0.5	2.5
4-Ethyltoluene	ND	ND	0.5	2.5
1,2,4-Trimethylbenzene	0.55	2.7	0.5	2.5
1,3-Dichlorobenzene	ND	ND	0.5	3.0
Benzyl Chloride	ND	ND	0.5	2.6
1,4-Dichlorobenzene	ND	ND	0.5	3.0
1,2-Dichlorobenzene	ND	ND	0.5	3.0
1,2,4-Trichlorobenzene	ND	ND	0.5	3.7
Hexachlorobutadiene	ND	ND	0.5	5.3
Naphthalene	3.6	18.9	0.5	2.6

Surrogate Recovery (4-BFB) 80 %  
Method: TO-15 (Modified)  
Sampled into a Summa Canister.  
Analyzed by GC/MS.

MDL = Minimum Detectable Limit  
ND = Not Detected  
PPBv = Parts Per Billion By Volume



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## RESULTS FOR METHOD TO-15

Lab ID Number: 02B32151  
Client ID Number: FRSV-04

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

### Analyte:

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Propene	21	36.1	0.5	0.9
Dichlorodifluoromethane (freon 12)	25	123.6	0.5	2.5
Chloromethane	ND	ND	0.5	1.0
1,2-Dichlorotetrafluoroethane (freon 114)	ND	ND	0.5	3.5
Vinyl Chloride	ND	ND	0.5	1.3
1,3 - Butadiene	ND	ND	0.5	1.1
Bromomethane	ND	ND	0.5	1.9
Chloroethane	ND	ND	0.5	1.3
Acetone	ND	ND	0.5	1.2
Trichlorofluoromethane (freon 11)	2.6	14.6	0.5	2.8
Ethanol	ND	ND	0.5	0.9
1,1-Dichloroethene	ND	ND	0.5	2.0
Methylene Chloride	0.87	3.0	0.5	1.7
1,1,2-Trichlorotrifluoroethane (freon 113)	ND	ND	0.5	3.8
Carbon Disulfide	ND	ND	0.5	1.6
trans-1,2-Dichloroethene	ND	ND	0.5	2.0
1,1-Dichloroethane	ND	ND	0.5	2.0
MTBE	ND	ND	0.5	1.8
Isopropyl Alcohol	ND	ND	0.5	1.2
2-Butanone (MEK)	ND	ND	0.5	1.5
cis-1,2-Dichloroethene	ND	ND	0.5	2.0
Hexane	12	42.3	0.5	1.8
Vinyl Acetate	ND	ND	0.5	1.8
Ethyl Acetate	ND	ND	0.5	1.8
Chloroform	ND	ND	0.5	2.4
Tetrahydrofuran	ND	ND	0.5	1.5
1,2-Dichloroethane	ND	ND	0.5	2.0
1,1,1-Trichloroethane	0.53	2.9	0.5	2.7
Benzene	ND	ND	0.5	1.6
Carbon Tetrachloride	ND	ND	0.5	3.1
Cyclohexane	ND	ND	0.5	1.7
1,2-Dichloropropane	ND	ND	0.5	2.3
Bromodichloromethane	ND	ND	0.5	3.4



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Lab ID Number: 02B32151  
Client ID Number: FRSV-04

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

**Analyte:**

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	0.5	2.7
Heptane	ND	ND	0.5	2.0
4-Methyl-2-pentanone(MIBK)	ND	ND	0.5	2.0
cis-1,3-Dichloropropene	ND	ND	0.5	2.3
trans-1,3-Dichloropropene	ND	ND	0.5	2.3
1,1,2-Trichloroethane	ND	ND	0.5	2.7
Toluene	ND	ND	0.5	1.9
2-Hexanone (MBK)	ND	ND	0.5	2.0
Dibromochloromethane	ND	ND	0.5	4.3
1,2-Dibromoethane	ND	ND	0.5	3.8
Tetrachloroethene	ND	ND	0.5	3.4
Chlorobenzene	ND	ND	0.5	2.3
Ethylbenzene	ND	ND	0.5	2.2
M/P Xylenes	ND	ND	0.5	2.2
Styrene	ND	ND	0.5	2.1
O-Xylene	ND	ND	0.5	2.2
1,1,2,2-Tetrachloroethane	ND	ND	0.5	3.4
1,3,5-Trimethylbenzene	ND	ND	0.5	2.5
4-Ethyltoluene	ND	ND	0.5	2.5
1,2,4-Trimethylbenzene	ND	ND	0.5	2.5
1,3-Dichlorobenzene	ND	ND	0.5	3.0
Benzyl Chloride	ND	ND	0.5	2.6
1,4-Dichlorobenzene	ND	ND	0.5	3.0
1,2-Dichlorobenzene	ND	ND	0.5	3.0
1,2,4-Trichlorobenzene	ND	ND	0.5	3.7
Hexachlorobutadiene	ND	ND	0.5	5.3
Naphthalene	ND	ND	0.5	2.6

Surrogate Recovery (4-BFB) 74 %  
Method: TO-15 (Modified)  
Sampled into a Summa Canister.  
Analyzed by GC/MS.

MDL = Minimum Detectable Limit  
ND = Not Detected  
PPBv = Parts Per Billion By Volume





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## RESULTS FOR METHOD TO-15

Lab ID Number: 02B32152  
Client ID Number: FRSV-03

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

### Analyte:

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Propene	5.5	9.5	0.5	0.9
Dichlorodifluoromethane (freon 12)	13	64.3	0.5	2.5
Chloromethane	ND	ND	0.5	1.0
1,2-Dichlorotetrafluoroethane (freon 114)	ND	ND	0.5	3.5
Vinyl Chloride	ND	ND	0.5	1.3
1,3 - Butadiene	ND	ND	0.5	1.1
Bromomethane	ND	ND	0.5	1.9
Chloroethane	ND	ND	0.5	1.3
Acetone	11	26.1	0.5	1.2
Trichlorofluoromethane (freon 11)	4.4	24.7	0.5	2.8
Ethanol	ND	ND	0.5	0.9
1,1-Dichloroethene	ND	ND	0.5	2.0
Methylene Chloride	1.2	4.2	0.5	1.7
1,1,2-Trichlorotrifluoroethane (freon 113)	ND	ND	0.5	3.8
Carbon Disulfide	ND	ND	0.5	1.6
trans-1,2-Dichloroethene	ND	ND	0.5	2.0
1,1-Dichloroethane	ND	ND	0.5	2.0
MTBE	ND	ND	0.5	1.8
Isopropyl Alcohol	ND	ND	0.5	1.2
2-Butanone (MEK)	ND	ND	0.5	1.5
cis-1,2-Dichloroethene	ND	ND	0.5	2.0
Hexane	1.1	3.9	0.5	1.8
Vinyl Acetate	ND	ND	0.5	1.8
Ethyl Acetate	ND	ND	0.5	1.8
Chloroform	ND	ND	0.5	2.4
Tetrahydrofuran	ND	ND	0.5	1.5
1,2-Dichloroethane	ND	ND	0.5	2.0
1,1,1-Trichloroethane	ND	ND	0.5	2.7
Benzene	18	57.4	0.5	1.6
Carbon Tetrachloride	ND	ND	0.5	3.1
Cyclohexane	ND	ND	0.5	1.7
1,2-Dichloropropane	ND	ND	0.5	2.3
Bromodichloromethane	ND	ND	0.5	3.4



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Lab ID Number: 02B32152  
Client ID Number: FRSV-03

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

**Analyte:**

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	0.5	2.7
Heptane	ND	ND	0.5	2.0
4-Methyl-2-pentanone(MIBK)	ND	ND	0.5	2.0
cis-1,3-Dichloropropene	ND	ND	0.5	2.3
trans-1,3-Dichloropropene	ND	ND	0.5	2.3
1,1,2-Trichloroethane	ND	ND	0.5	2.7
Toluene	8.0	30.1	0.5	1.9
2-Hexanone (MBK)	ND	ND	0.5	2.0
Dibromochloromethane	ND	ND	0.5	4.3
1,2-Dibromoethane	ND	ND	0.5	3.8
Tetrachloroethene	2.6	17.6	0.5	3.4
Chlorobenzene	ND	ND	0.5	2.3
Ethylbenzene	ND	ND	0.5	2.2
M/P Xylenes	ND	ND	0.5	2.2
Styrene	ND	ND	0.5	2.1
O-Xylene	ND	ND	0.5	2.2
1,1,2,2-Tetrachloroethane	ND	ND	0.5	3.4
1,3,5-Trimethylbenzene	ND	ND	0.5	2.5
4-Ethyltoluene	ND	ND	0.5	2.5
1,2,4-Trimethylbenzene	ND	ND	0.5	2.5
1,3-Dichlorobenzene	ND	ND	0.5	3.0
Benzyl Chloride	ND	ND	0.5	2.6
1,4-Dichlorobenzene	ND	ND	0.5	3.0
1,2-Dichlorobenzene	ND	ND	0.5	3.0
1,2,4-Trichlorobenzene	ND	ND	0.5	3.7
Hexachlorobutadiene	ND	ND	0.5	5.3
Naphthalene	1.4	7.3	0.5	2.6

Surrogate Recovery (4-BFB) 75 %  
Method: TO-15 (Modified)  
Sampled into a Summa Canister.  
Analyzed by GC/MS.

MDL = Minimum Detectable Limit  
ND = Not Detected  
PPBv = Parts Per Billion By Volume



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## RESULTS FOR METHOD TO-15

Lab ID Number: 02B32153  
Client ID Number: FRSV-01

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

### Analyte:

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Propene	5.2	8.9	0.5	0.9
Dichlorodifluoromethane (freon 12)	ND	ND	0.5	2.5
Chloromethane	ND	ND	0.5	1.0
1,2-Dichlorotetrafluoroethane (freon 114)	ND	ND	0.5	3.5
Vinyl Chloride	ND	ND	0.5	1.3
1,3 - Butadiene	ND	ND	0.5	1.1
Bromomethane	ND	ND	0.5	1.9
Chloroethane	ND	ND	0.5	1.3
Acetone	ND	ND	0.5	1.2
Trichlorofluoromethane (freon 11)	0.63	3.5	0.5	2.8
Ethanol	ND	ND	0.5	0.9
1,1-Dichloroethene	ND	ND	0.5	2.0
Methylene Chloride	4.1	14.2	0.5	1.7
1,1,2-Trichlorotrifluoroethane (freon 113)	ND	ND	0.5	3.8
Carbon Disulfide	ND	ND	0.5	1.6
trans-1,2-Dichloroethene	ND	ND	0.5	2.0
1,1-Dichloroethane	ND	ND	0.5	2.0
MTBE	ND	ND	0.5	1.8
Isopropyl Alcohol	5.9	14.5	0.5	1.2
2-Butanone (MEK)	ND	ND	0.5	1.5
cis-1,2-Dichloroethene	ND	ND	0.5	2.0
Hexane	1.9	6.7	0.5	1.8
Vinyl Acetate	ND	ND	0.5	1.8
Ethyl Acetate	ND	ND	0.5	1.8
Chloroform	1.6	7.8	0.5	2.4
Tetrahydrofuran	0.94	2.8	0.5	1.5
1,2-Dichloroethane	ND	ND	0.5	2.0
1,1,1-Trichloroethane	ND	ND	0.5	2.7
Benzene	1.1	3.5	0.5	1.6
Carbon Tetrachloride	0.65	4.1	0.5	3.1
Cyclohexane	ND	ND	0.5	1.7
1,2-Dichloropropane	ND	ND	0.5	2.3
Bromodichloromethane	ND	ND	0.5	3.4





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Lab ID Number: 02B32153  
Client ID Number: FRSV-01

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

**Analyte:**

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	0.5	2.7
Heptane	0.98	4.0	0.5	2.0
4-Methyl-2-pentanone(MIBK)	ND	ND	0.5	2.0
cis-1,3-Dichloropropene	ND	ND	0.5	2.3
trans-1,3-Dichloropropene	ND	ND	0.5	2.3
1,1,2-Trichloroethane	ND	ND	0.5	2.7
Toluene	22	82.8	0.5	1.9
2-Hexanone (MBK)	ND	ND	0.5	2.0
Dibromochloromethane	ND	ND	0.5	4.3
1,2-Dibromoethane	ND	ND	0.5	3.8
Tetrachloroethene	ND	ND	0.5	3.4
Chlorobenzene	ND	ND	0.5	2.3
Ethylbenzene	ND	ND	0.5	2.2
M/P Xylenes	ND	ND	0.5	2.2
Styrene	ND	ND	0.5	2.1
O-Xylene	ND	ND	0.5	2.2
1,1,2,2-Tetrachloroethane	ND	ND	0.5	3.4
1,3,5-Trimethylbenzene	ND	ND	0.5	2.5
4-Ethyltoluene	ND	ND	0.5	2.5
1,2,4-Trimethylbenzene	ND	ND	0.5	2.5
1,3-Dichlorobenzene	ND	ND	0.5	3.0
Benzyl Chloride	ND	ND	0.5	2.6
1,4-Dichlorobenzene	ND	ND	0.5	3.0
1,2-Dichlorobenzene	ND	ND	0.5	3.0
1,2,4-Trichlorobenzene	ND	ND	0.5	3.7
Hexachlorobutadiene	ND	ND	0.5	5.3
Naphthalene	ND	ND	0.5	2.6

Surrogate Recovery (4-BFB) 74 %  
Method: TO-15 (Modified)  
Sampled into a Summa Canister.  
Analyzed by GC/MS.

MDL = Minimum Detectable Limit  
ND = Not Detected  
PPBv = Parts Per Billion By Volume



**con-test**<sup>®</sup>  
ANALYTICAL LABORATORY

39 Spruce Street, 2nd Floor  
East Longmeadow, MA 01028  
413.525.2332  
413.525.6405 (fax)

## RESULTS FOR METHOD TO-15

Lab ID Number: 02B32154  
Client ID Number: FRSV-02

LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

### Analyte:

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Propene	14	24.1	0.5	0.9
Dichlorodifluoromethane (freon 12)	ND	ND	0.5	2.5
Chloromethane	ND	ND	0.5	1.0
1,2-Dichlorotetrafluoroethane (freon 114)	ND	ND	0.5	3.5
Vinyl Chloride	ND	ND	0.5	1.3
1,3 - Butadiene	ND	ND	0.5	1.1
Bromomethane	ND	ND	0.5	1.9
Chloroethane	ND	ND	0.5	1.3
Acetone	26	61.8	0.5	1.2
Trichlorofluoromethane (freon 11)	ND	ND	0.5	2.8
Ethanol	ND	ND	0.5	0.9
1,1-Dichloroethene	ND	ND	0.5	2.0
Methylene Chloride	1.5	5.2	0.5	1.7
1,1,2-Trichlorotrifluoroethane (freon 113)	ND	ND	0.5	3.8
Carbon Disulfide	ND	ND	0.5	1.6
trans-1,2-Dichloroethene	ND	ND	0.5	2.0
1,1-Dichloroethane	ND	ND	0.5	2.0
MTBE	ND	ND	0.5	1.8
Isopropyl Alcohol	ND	ND	0.5	1.2
2-Butanone (MEK)	ND	ND	0.5	1.5
cis-1,2-Dichloroethene	ND	ND	0.5	2.0
Hexane	ND	ND	0.5	1.8
Vinyl Acetate	ND	ND	0.5	1.8
Ethyl Acetate	ND	ND	0.5	1.8
Chloroform	ND	ND	0.5	2.4
Tetrahydrofuran	ND	ND	0.5	1.5
1,2-Dichloroethane	ND	ND	0.5	2.0
1,1,1-Trichloroethane	1.1	6.0	0.5	2.7
Benzene	1.9	6.1	0.5	1.6
Carbon Tetrachloride	ND	ND	0.5	3.1
Cyclohexane	ND	ND	0.5	1.7
1,2-Dichloropropane	ND	ND	0.5	2.3
Bromodichloromethane	ND	ND	0.5	3.4





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413.525.6405 (fax)

Lab ID Number: 02B32154  
Client ID Number: FRSV-02

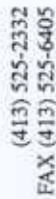
LIMS Number: 68167  
Date Analyzed: 12/11/02  
Analyst: PRM

**Analyte:**

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	0.5	2.7
Heptane	ND	ND	0.5	2.0
4-Methyl-2-pentanone(MIBK)	ND	ND	0.5	2.0
cis-1,3-Dichloropropene	ND	ND	0.5	2.3
trans-1,3-Dichloropropene	ND	ND	0.5	2.3
1,1,2-Trichloroethane	ND	ND	0.5	2.7
Toluene	ND	ND	0.5	1.9
2-Hexanone (MBK)	ND	ND	0.5	2.0
Dibromochloromethane	ND	ND	0.5	4.3
1,2-Dibromoethane	ND	ND	0.5	3.8
Tetrachloroethene	ND	ND	0.5	3.4
Chlorobenzene	ND	ND	0.5	2.3
Ethylbenzene	ND	ND	0.5	2.2
M/P Xylenes	ND	ND	0.5	2.2
Styrene	ND	ND	0.5	2.1
O-Xylene	ND	ND	0.5	2.2
1,1,2,2-Tetrachloroethane	ND	ND	0.5	3.4
1,3,5-Trimethylbenzene	ND	ND	0.5	2.5
4-Ethyltoluene	ND	ND	0.5	2.5
1,2,4-Trimethylbenzene	ND	ND	0.5	2.5
1,3-Dichlorobenzene	ND	ND	0.5	3.0
Benzyl Chloride	ND	ND	0.5	2.6
1,4-Dichlorobenzene	ND	ND	0.5	3.0
1,2-Dichlorobenzene	ND	ND	0.5	3.0
1,2,4-Trichlorobenzene	ND	ND	0.5	3.7
Hexachlorobutadiene	ND	ND	0.5	5.3
Naphthalene	ND	ND	0.5	2.6

Surrogate Recovery (4-BFB) 82 %  
Method: TO-15 (Modified)  
Sampled into a Summa Canister.  
Analyzed by GC/MS.

MDL = Minimum Detectable Limit  
ND = Not Detected  
PPBv = Parts Per Billion By Volume



39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: <u>PS+S</u>		Telephone: <u>732-560-9700</u>		Batch #: _____		Analysis Required <u>6/8/07</u>											
Attn: <u>JOHN PASTORICK</u>		Address: <u>67 MT. BLVD. EXT. WARREN, NJ 07059</u>		Project #: <u>2522-006-084</u>		Client P.O. #: <u>2522-006-084</u>											
Site Location: <u>FAR ROCKAWAY FORMER MSP - FAR ROCKAWAY, NY</u>		Sampled By: <u>JOSEPH TROICHTO</u>		Email Format: <u>pdf format .xls format</u>		Email Address: <u>JPASTORICK@PSAIDS.COM</u>											
Call Results: Yes <u>    </u> No <u>    </u>		Fax: <u>732-271-4890</u>		Total # of Containers submitted with this chain: <u>5</u>		PRESERVATIVE CODE: I = ICED N = HNO <sub>3</sub> H = HCl S = NaOH T = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> O = OTHER											
Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED	Start Date/Time	Stop Date/Time	Composite	Grab	WASTE WATER	GROUND WATER	DKG WATER	Soil	Air	Other	Preservative (Use Code)	Container (Use Code)	Naphthalene MADEPAPH TC-15	
FRSV-06	CT 4414	32150	12/4/02	14:00	15:00		X					X					
FRSV-04	CT 3373	32151	12/4/02	14:11	15:00		X					X					
FRSV-03	CT 4415	32152	12/4/02	14:10	14:55		X					X					
FRSV-01	CT 4397	32153	12/4/02	14:30	15:20		X					X					
FRSV-02	CT 3384	32154	12/5/02	17:05	18:05		X					X					
			CONTAINER CODE			P: PLASTIC (____ Size) V = 40 ml vial G = Glass (____ size) A = 1000 ml Amber O = Other			PREPRESERVATIVE CODE: I = ICED N = HNO <sub>3</sub> H = HCl S = NaOH T = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> O = OTHER								
Relinquished by: (Signature) <u>Joseph Troichto</u>			Date Time <u>12/4/02</u>			Received by: (Signature) <u>MAJ</u>			If this section is not filled out, Con-Test will analyze at normal turnaround.			Turnaround Requested: <u>24-Hour</u> <u>48-Hour</u> <u>Normal</u>			Date Required		
Relinquished by: (Signature) _____			Date Time _____			Received by: (Signature) _____			Remarks/Comments: <u>APH not required. TC-15+ Naphthalene = Air Special Test</u>			Detection Limit Requests: Regulations? <u>    </u> SIMS: <u>    </u> Yes <u>    </u> No <u>    </u>					
Relinquished by: (Signature) _____			Date Time _____			Received by: (Signature) _____			MATRIX OTHER <u>AP 12/10/02</u>								

## **APPENDIX K**

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### **PHOTOGRAPHIC LOG**





**Surface Sample FRSS-14**

**Date: December 2002**



**Surface Sample FRSS-14 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-13**

**Date: December 2002**



**Surface Sample FRSS-13 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-12**

**Date: December 2002**



**Surface Sample FRSS-12 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-11**

**Date: December 2002**



**Surface Sample FRSS-11 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-09**

**Date: December 2002**



**Surface Sample FRSS-09 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-08 Following Restoration**

**Date: December 2002**

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**Surface Sample FRSS-07**

**Date: December 2002**

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**Surface Sample FRSS-07 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-06**

**Date: December 2002**



**Surface Sample FRSS-06 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-05**

**Date: December 2002**



**Surface Sample FRSS-05 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-04**

**Date: December 2002**



**Surface Sample FRSS-04 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-03**

**Date: December 2002**



**Surface Sample FRSS-03 Following Restoration**

**Date: December 2002**





**Surface Sample FRSS-02**

**Date: December 2002**

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**Soil Sample FRSS-02 After Restoration**

**Date: December 2002**





**Soil Boring FRSB-08 and Monitoring Well FRGW-05**

**Date: December  
2002**



**Soil Boring FRSB-10 After Restoration**

**Date: December 2002**





Soil Boring FRSB-04 (0-4')

Date: December 2002



Soil Boring FRSB-04 (4'-8')

Date: December 2002





Soil Boring FRSB-04 (8'-12')

Date: December 2002



Soil Boring FRSB-04 (8'-12')

Date: December 2002





**Soil Boring FRSB-03 and Monitoring Well FRGW-02**

**Date: December 2002**



**Soil Boring FRSB-03 After Restoration**

**Date: December 2002**





**Soil Boring FRSB-02, Surface Sample FRSS-01 and Monitoring Well FRGW-01      Date: December 2002**

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**Soil Boring FRSB-02 and Surface Sample FRSS-01 After Restoration      Date: December 2002**





**Test Trench Western Branch**

**Date: December 2002**

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**Test Trench Stratigraphy**

**Date: December 2002**





**Test Trench Corner Showing Ash and Cinder Layer**

**Date: December 2002**



**Test Trench Western Branch Showing Ash and Cinder Layer**

**Date: December 2002**





**Test Trench Eastern Branch**

**Date: December 2002**

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**Test Trench showing Gas Holder Foundation and Sub Base**

**Date: December 2002**





**Test Trench showing Gas Holder Foundation and Sub Base**

**Date: December 2002**



**Test Trench showing Gas Holder Foundation and Sub Base**

**Date: December 2002**