REPORT
FOR
ADDITIONAL SOIL INVESTIGATION
TO ASSESS THE PERFORMANCE OF THE
SOIL VAPOR EXTRACTION/AIR SPARGING SYSTEM
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE, NEW YORK

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1.0 INTRODUCTION

The Northern Division of the Naval Facilities Engineering Command has issued Delivery Order (DO) No. 0004 to Foster Wheeler Environmental Corporation (Foster Wheeler) under Remedial Action Contract (RAC) No. N62472-94-D-0398 for the installation, start-up, and operation and maintenance (O&M) of a Soil Vapor Extraction/Air Sparging System (SVE/AS). The SVE/AS System was intended to be in operation for an estimated beneficial operating period of approximately 18 months at the Naval Weapons Industrial Reserve Plant (NWIRP) located in Bethpage, New York.

This report presents the results of the additional soil investigation activities completed at the NWIRP during September and October 1999.

1.1 SITE DESCRIPTION

The NWIRP-Bethpage facility is located in Nassau County on Long Island, New York, approximately 30 miles east of New York City. The 108-acre site is bordered on the north, west, and south by the former Grumman Aerospace complex, which covers approximately 605 acres, and on the east by a residential neighborhood. The NWIRP is currently listed by the New York State Department of Environmental Conservation (NYSDEC) as an "Inactive hazardous waste site" (#1-30-003B) as is the Northrop Grumman Corporation Site (#1-30-300A). Figure 1-1 provides the Site Location Map.

The facilities at NWIRP include four plants (Nos. 3, 5, and 20, used for assembly and prototype testing, and No. 10, which contains a group of quality control laboratories), two warehouse complexes (north and south), a salvage storage area, water recharge basins, an industrial wastewater treatment plant and several small support buildings.

The remediation currently being performed under DO No. 0004 involves SVE/AS of contaminated soil at Site 1, the Former Drum Marshaling Area as presented in Figure 1-2. This site is located in the middle third of the NWIRP facility, east of Plant 3. The Former Drum Marshaling Area occupies approximately four acres and consists of two concrete storage pads and an abandoned cesspool leach field. It is surrounded on three sides by a fence and on the fourth side by Plant No. 3. Site 1 is relatively flat, with the eastern portion covered with bare sandy soils, gravel, grass and a concrete pad. The western portion of the site is predominantly covered with concrete. A vegetated wind row (pine) and fence are present along the eastern edge of the site to reduce community visibility. In addition to drum storage, this area has been used to store various types of equipment and heavy materials, including transformers.

1.2 SITE HISTORY

The NWIRP was established in 1933 and is presently not active. Since its inception, the primary mission for the facility has been the research, prototyping, testing, design, engineering, fabrication, and primary assembly of military aircraft.

Hazardous waste management practices for Grumman facilities performed at Site 1 included the marshaling of drummed wastes. Such storage first took place on a cinder surface over the cesspool field, east of Plant No. 3. In 1978, the collection and marshaling point was moved a few yards south of the original site, to an area on a concrete pad. In 1982, drummed waste storage was transferred to the present Drum Marshaling facility north of Plant No. 3, located in the Salvage Storage Area.

1.3 GEOLOGY

The NWIRP is underlain by approximately 1,100 feet of unconsolidated sediments that overlie crystalline bedrock. The unconsolidated sediments consist of four distinct geologic units, in descending order: 1) the Upper Glacial Formation; 2) the Magothy Formation; 3) the Raritan Clay Member of the Raritan Formation; and 4) the Lloyd Sand Member of the Raritan Formation. The crystalline bedrock consists primarily of schist, gneiss, and granite, and the regional dip is to the south and southeast. All of the geologic units dip in these directions, although to varying degrees.

The Upper Glacial and Magothy Formations were penetrated and sampled during the remedial investigation activities. The Raritan Formation lies below the total depth of this investigation. The Upper Glacial Formation, which is about 30 to 45 feet thick, consists chiefly of coarse sands and gravels. The Upper Magothy Formation consists chiefly of coarse sands to a depth of about 100 feet, below which finer sands, silts, and clays predominate. Clay deposits are fairly common in the formation, but laterally discontinuous; no individual clay horizon of regional extent underlies the NWIRP.

The shallow soil underlying the site consists of unconsolidated gravels, sands and silts. Several localized clay lenses have been identified in the shallow site soils. A clay lens is located beneath the central and eastern portion of Site 1.

1.4 PREVIOUS INVESTIGATIONS

The following sections briefly describe the previous investigations performed to date at the NWIRP-Bethpage facility.

1.4.1 May 1992 - Remedial Investigation

Halliburton-NUS conducted a remedial investigation (RI) for the Navy in 1992 and 1993 to investigate potential sources of volatile organic compound (VOC) contamination. Tasks performed during the RI included a soil-gas survey, soil borings, surface soil sampling, and monitoring well installation and sampling. The results of the groundwater sampling are not discussed here, since the SVE/AS system is only intended to address soil contamination. The soil-gas and soil sampling results of the RI are summarized below:

- Soil-gas survey: Elevated levels of VOCs were detected near the Former Drum Marshaling Area and extending to the south.

- Soil borings: Ten soil borings were advanced and analyzed for VOCs. VOCs detected include trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), and tetrachloroethene (PCE).
  - TCE: Nine borings had low to non-detectable levels, and one boring contained 200 micrograms per kilogram (ug/kg) TCE.
  - 1,1,1-TCA: Nine borings had non-detectable levels, and one boring contained 72 ug/kg 1,1,1-TCA.
  - PCE: Nine borings had low to non-detectable levels, and one boring contained 4,800 ug/kg PCE.

- Surface soil samples: Seven locations were sampled, and analyzed for VOCs, semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals.
  - TCE: Concentrations ranged from non-detect to 17 ug/kg.
  - PCE: Concentrations ranged from non-detect to 80 ug/kg.
  - PCBs: Maximum concentration of 7,900 ug/kg.
  - Pesticides, polynuclear aromatic hydrocarbons (PAHs), and inorganics also detected.

Soil testing during the RI determined that Site 1 soils contained VOCs, PCB, and arsenic contamination. Based on these results, it appeared that soil contamination was located near the center of Site 1.

1.4.2 October 1993 - Phase 2 Remedial Investigation

Halliburton-NUS performed additional soil sampling and groundwater monitoring in 1993. The soil samples were analyzed only for PCBs. The results of the groundwater sampling are not discussed here, since the SVE/AS system is only intended to address soil contamination.

- Soil sampling: Seven samples collected at surface and one sample collected at 3 feet below ground surface (bgs).
  - Aroclor-1248: concentrations ranged from non-detect to 1,300,000 ug/kg.
  - Aroclor-1254: concentrations ranged from non-detect to 170,000 ug/kg.
  - Aroclor-1242: concentrations ranged from non-detect to 25,000 ug/kg.

The soil sampling indicated the presence of widespread low-level PCB contamination of the surface soils at the site. The majority of the samples contained PCBs at a concentration of 10 mg/kg or less, but two areas were found to contain PCB concentrations greater than 10 mg/kg. One area was near the southwestern portion of the site (30 mg/kg PCBs) and the other area was along the western edge of the site (1,1470 mg/kg PCBs).

1.4.3 November 1995 - Pre-Excavation Soil Sampling

An investigation of the site was conducted by Foster Wheeler in November and December 1995 to characterize PCB contamination for disposal prior to the proposed excavation of PCB-contaminated soil. Soil borings were advanced in four areas of Site 1, referred to as A, B, C, and D. Area A was located along the western boundary of the site, Area B was located in the northwest corner of the site, Area C was located in the central portion of the site, and Area D was located in the southwest corner of the site. A total of 38 borings were installed.

- VOCs: Twenty-eight locations were analyzed for VOCs. Two samples contained VOCs above the New York State (NYS) Soil Cleanup Objective Levels, as described below:
  - Area A: 1 location at 2-4 feet bgs
  - Area B: 1 location at 6-8 feet bgs

- SVOCs: Twenty-eight locations were analyzed for SVOCs. Fourteen samples contained SVOCs above NYS Soil Cleanup Objective Levels, as described below:
  - Area A: 1 location at 0-2 feet bgs
    2 locations at 2-4 feet bgs
  - Area B: 5 locations at 0-2 feet bgs
    1 location at 2-4 feet bgs
    2 locations at 6-8 feet bgs
  - Area C: 1 location at 0-2 feet bgs
    1 location at 6-8 feet bgs
  - Area D: 1 location at 2-4 feet bgs

- PCBs: All 38 locations were analyzed for PCBs.
  - One sample contained PCBs above 500,000 ug/kg, as described below:
    Area A: 1 location at 0-2 feet bgs
  - Thirty-seven samples contained PCBs between 10,000 and 500,000 ug/kg, as described below:
    Area A: 2 locations at 0-2 feet bgs
    2 locations at 2-4 feet bgs
    1 location at 6-8 feet bgs
    2 locations at 10-12 feet bgs

- Area B: 11 locations at 0-2 feet bgs
  7 locations at 2-4 feet bgs
  3 locations at 6-8 feet bgs
- Area C: 3 locations at 0-2 feet bgs
  3 locations at 2-4 feet bgs
  2 locations at 6-8 feet bgs
  1 location at 10-12 feet bgs

- Pesticides: Twenty-seven locations were analyzed for pesticides. Ten samples contained pesticides above NYS Soil Cleanup Objective Levels, as described below:
  - Area A: 1 location at 0-2 feet bgs
    1 location at 2-4 feet bgs
  - Area B: 4 locations at 0-2 feet bgs
    2 locations at 6-8 feet bgs
  - Area C: 1 location at 0-2 feet bgs
    1 location at 2-4 feet bgs

- Metals: Twenty-seven locations were analyzed for metals. Thirty-one samples contained metals above NYS Soil Cleanup Objective Levels, as described below:
  - Area A: 1 location at 0-2 feet bgs
    2 locations at 2-4 feet bgs
    1 location at 10-12 feet bgs
  - Area B: 5 locations at 0-2 feet bgs
    4 location at 2-4 feet bgs
    6 locations at 6-8 feet bgs
    4 locations at 10-12 feet bgs
  - Area C: 1 location at 0-2 feet bgs
    1 location at 2-4 feet bgs
    1 location at 6-8 feet bgs
    1 location at 10-12 feet bgs
  - Area D: 1 location at 0-2 feet bgs
    1 location at 2-4 feet bgs
    1 location at 6-8 feet bgs
    1 location at 10-12 feet bgs

Detected PCB concentrations for the Site 1 area ranged as high as 3,800 mg/kg, and concentrations greater than the 10 mg/kg soil level for excavation were present to a depth of 16 feet. The western, northwestern and eastern portions of Site 1 contained elevated PCB concentrations, ranging from 12 mg/kg to 3,800 mg/kg at 0 to 4 feet bgs, and 12 mg/kg to 310 mg/kg at 4 feet in depth. In general, Aroclors 1242, 1248 and 1254 were the PCB compounds detected.

Based on these results, the elevated levels of VOCs, SVOCs, pesticides, and metals appear to be randomly distributed across the site, while elevated levels of PCBs appear throughout the site.

1.4.4 July 1996 - Additional Pre-Excavation Soil Sampling

In July 1996, Foster Wheeler performed an additional soil investigation at Site 1. The PCB results were determined using field screening analysis and laboratory analysis of selected sample locations. The additional soil investigation focused primarily on PCBs in soil; however, Foster Wheeler performed TCLP/RCRA analyses on soil samples to characterize the material for proposed disposal.

- PCBs:
  - Eighty-five locations were field screened for PCBs. Twenty-three locations had levels of PCBs >10 parts per million (ppm).
  - Twelve samples were sent to an analytical laboratory for PCB analysis. Four of these samples contained PCBs >10 ppm.

- VOCs: Three locations were analyzed for VOCs, but none of the VOCs detected were above NYS Soil Cleanup Objective Levels.

- Target Analyte List (TAL) Metals: Seventy-three locations were sampled/analyzed for TAL Metals. The following describes the depths at which levels above NYS Soil Cleanup Objective Levels were found:
  - 0-10 feet bgs: 34 locations
  - 10-15 feet bgs: 42 locations
  - 15-20 feet bgs: 69 locations
  - 20-25 feet bgs: 44 locations

1.4.5 October 1997 - CF Braun Results Letter Report

A pilot study was conducted by CF Braun to evaluate the removal of VOCs in the vadose zone by inducing air flow through the unsaturated soils and leachate pits. The maximum VOC contamination identified at the project site prior to initiating remedial activities was primarily based on soil sampling conducted by Foster Wheeler during November 1995 to March 1996 pre-excavation sampling activities. The exception is tetrachlorothene (PCE) which was provided by CF Braun sampling at the conclusion of the SVE/AS pilot study.

The measured radii of influence during the pilot study ranged from 50 feet at 5 cubic feet per minute (cfm) to approximately 100 feet at 80 cfm. It was estimated that approximately 13 soil vapor extraction wells would be necessary, with each well operating at a vapor extraction rate of 30 cfm, resulting in a radius of influence of approximately 75 feet. Soil vapor extraction wells were to be installed to provide a 50 percent overlap, resulting in a well spacing of 100 feet.

CF Braun installed three soil borings during the pilot study performed at Site 1. Soil boring SB-02 was installed in leach pit 79, soil boring SB-03 was installed near the edge of the suspected VOC-contaminated soils, and soil boring SB-04 was installed near the two former drum marshaling pads. Samples were collected prior to the pilot test, and after the pilot test.

- Pre-Test Results (April 1997)
  - SB-02: PCE levels ranged from 80 ug/kg to 59 ug/kg (10 and 40 feet bgs, respectively)
  - SB-03: PCE levels ranged from 47 ug/kg to non-detect (20 and 40 feet bgs, respectively)
  - SB-04: PCE levels ranged from 170 ug/kg to non-detect (30 and 40 feet bgs, respectively). Additional VOCs detected included 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethene (1,2-DCE), 1,1,1-TCA, and TCE.
- Post-Test Results (July 1997)
  - SB-02: no VOCs detected
  - SB-03: PCE levels ranged from 160 ug/kg to 660,000 ug/kg (20 and 40 feet bgs, respectively)
  - SB-04: no VOCs detected

Based on the pilot study results, a well schematic of 13 extraction wells with a radius of influence of 75 feet was proposed in the Design Analysis Report. Foster Wheeler completed the design and installed 13 extraction wells during the winter and spring of 1998. The system start-up and operation was initiated in June 1998. Soil vapor extraction well screens were positioned from ten feet above the groundwater table to five feet below the water table (45 to 60 feet bgs), and air sparging well screens were positioned from eight to ten feet below the groundwater table (63 to 65 feet bgs).

1.4.6 Geoprobe™ Soil Borings

In order to monitor the concentrations of VOCs in the area of the SVE/AS system, ten subsurface soil samples, using a Geoprobe™ were to be collected at regular intervals during operation of the SVE/AS. The analytical results for these soil samples could then be used to evaluate the effectiveness of the remediation and to determine when the soil remediation is complete. The subsurface soil sample locations were distributed both horizontally and vertically throughout the VOC-contaminated soils, and targeted areas with moderate (3 to 10 times the PRGs) and high (greater than 10 times the PRGs) VOC concentrations. In addition, one sample location was within a cesspool of known VOC contamination, GP-3.

Sample locations and depths were determined based on lithology and photoionization detector (PID) screening results obtained during the installation of injection and extraction wells. Soil sampling locations were consistent throughout each sampling event, and the soil samples were analyzed for VOCs.

June 1998

The results of the June 1998 Geoprobe™ soil sampling, collected prior to the SVE/AS system start-up, are as follows:

- VOCs were not detected in 9 of the 10 borings
- One boring, GP01-03 (installed in a leach pit) contained the following VOCs:
  - 1,1,1-TCA (2,500 ppb)
  - TCE (2,200 ppb)
  - Ethylbenzene (908 ppb)
  - Xylenes (5,800 ppb)

December 1998

In December 1998, after six months of operation of the SVE/AS system, Geoprobe™ sampling was conducted at the ten locations. The results are provided below.

- VOCs were not detected in 9 of the 10 borings
- One boring, GP01-03 (installed in a leach pit) contained the following VOCs:
  - 1,1,1-TCA (8,530 ppb)
  - Toluene (2,670 ppb)
  - Xylenes (6,890 ppb)
  - n-Propylbenzene (2,080 ppb)
  - n-Butylbenzene (2,360 ppb)
  - 1,2,4-Trimethylbenzene (14,400 ppb)
  - 1,3,5-Trimethylbenzene (5,630 ppb)

2.0 ADDITIONAL SOIL INVESTIGATION

In order to further delineate subsurface soil contamination in the area of the SVE/AS treatment system, an additional soil investigation was conducted In 1999. A total of 26 soil borings were installed as part of this investigation. Figure 2-1 presents the locations of the additional soil borings. Locations that were expected to indicate the presence of VOCs in the soil were selected.

A total of seven soil borings were installed in the leachate pits that had previously exhibited the highest concentrations of VOCs. Figure 2-2 presents the leachate pit VOC concentrations from 1996 used, in part, as the basis for selecting soil boring locations. The remaining 20 soil borings were installed in the vicinity of these seven leachate pits in the path to the extraction wells to determine if VOCs are being captured by the SVE/AS system. Soil borings were installed directly into leachate pits MH-74, MH-80, MH-72, MH-71, MH-37, MH-49 and MH-25.

2.1 ADDITIONAL SOIL INVESTIGATION OBJECTIVES

The objective of the additional soil investigation was to map horizontally and vertically the extent of source contamination from the leachate pits identified as having levels of contamination. Additionally, this investigation was designed to determine the progress of remediation at the site in areas previously containing the greatest concentrations of VOCs.

2.2 ADDITIONAL SOIL INVESTIGATION IMPLEMENTATION

Soil borings were installed between September 8 and October 24, 1999. Soil borings were installed using hollow-stem auger method with the collection of continuous split-spoon samples. Each split-spoon sample was screened on-site for VOCs using a PID, and the results were logged in the field logbook. Each of the 26 soil borings were installed to the water table, encountered at approximately 55 feet below ground surface, with samples taken at discrete intervals to vertically characterize the contamination. Soil samples for chemical analysis were collected from five feet below each leachate pit (20 feet bgs) and at 10 foot intervals after that (30 feet, 40 feet and 50 feet bgs). Additional soil samples were collected for chemical analysis when field screening (PID readings) indicated an area of contamination above or below the intended sample depth.

Samples were collected from each location based on field screening and predetermined sample depths and sent to an analytical laboratory, Toxikon, located in Bedford, Massachusetts. Samples were analyzed for VOCs, SVOCs, PCBs, Pesticides and RCRA Metals.

3.0 ADDITIONAL SOIL INVESTIGATION RESULTS

The following sections provide a discussion of the analytical results for the samples collected from the 26 soil borings installed during the additional soil investigation.

3.1 VOLATILE ORGANIC COMPOUNDS

VOCs were detected in 13 soil samples. The following provides a discussion of the distribution of VOCs in the soil samples collected. Table 3-1 presents a summary of the analytical results for detected VOCs, and Figure 3-1 presents the locations of the detected VOCs. A table summarizing the analytical results for all of the samples analyzed for VOCs is presented in Appendix C.

1,1,1-Trichloroethane was detected in two samples, SB06-50-0999 and SB24-14-0999 at concentrations of 17 ug/kg and 4,400 ug/kg, respectively. The preliminary remediation goal (PRG) for this compound, 10 ug/kg, was exceeded in both samples, i.e., 1.7 and 440 times greater than the established PRG, respectively.

Trichloroethene was present in two samples, SB06-03-0999 and SB24-14-0999 at concentrations of 18 ug/kg and 73,000 ug/kg, respectively. The PRG for this compound, 10 ug/kg, was exceeded in both samples. These concentrations were 1.8 and 7,300 times greater than the established PRG, respectively.

Tetrachloroethene was detected in nine samples at concentrations ranging from 6.8 ug/kg to 460,000 ug/kg. Seven of these nine samples exceeded the PRG for tetrachloroethene of 21 ug/kg. Exceedences ranged from 1 ug/kg above the PRG to 21,904 times greater than the PRG.

Methyl tertiary butyl ether was detected in two samples, SB02-30-0999 and SB24-30-0999, at concentrations of 59 and 150 ug/kg. A PRG has not been established for methyl tertiary butyl ether.

Toluene was detected in one soil sample, SB24-14-0999, at a concentration of 8,900 ug/kg. A PRG has not been established for toluene.

P-isopropyltoluene was detected in three samples at concentrations of ranging from 5.7 ug/kg to 100 ug/kg. A PRG has not been established for p-isopropyltoluene.

Ethylbenzene was detected in three samples at concentrations ranging from 7.4 ug/kg to 980 ug/kg. A PRG has not been established for ethylbenzene.

Total xylenes were detected in four samples at concentrations ranging from 30 ug/kg to 4,200 ug/kg. A PRG has not been established for total xylenes.

Naphthalene was detected in two samples, SB06-03-0999 and SB24-14-0999, at concentrations of 6 and 2,500 ug/kg, respectively. A PRG has not been established for naphthalene.

N-butylbenzene was detected in two samples, SB06-03-0999 and SB06-50-0999, at concentrations of 5.1 ug/kg and 19 ug/kg, respectively. A PRG has not been established for n-butylbenzene.

N-propylbenzene was detected in two samples, SB06-10-0999 and SB06-50-0999, at concentrations of 6.2 ug/kg and 6.6 ug/kg, respectively. A PRG has not been established for n-propylbenzene.

1,2,3-trichlorobenzene was detected in one sample at a concentration of 9.9 ug/kg. A PRG has not been established for 1,2,3-trichlorobenzene.

1,2,4-trichlorobenzene was detected in two samples, SB12-20-1099 and SB17-50-1099, at concentrations of 23 ug/kg and 58 ug/kg, respectively. A PRG has not been established for 1,2,4-trichlorobenzene.

1,2,4-trimethylbenzene was detected in five samples at concentrations ranging from 5 ug/kg to 2,100 ug/kg. A PRG has not been established for 1,2,4-trimethylbenzene.

1,3,5-trimethylbenzene was detected in six soil samples at concentrations ranging from 5.4 ug/kg to 1,100 ug/kg. A PRG has not been established for 1,3,5-trimethylbenzene.

One sample, SB24-14-0999, contained cis-1,2-dichloroethene at a concentration of 650 ug/kg. A PRG has not been established forcis-1,2-dichloroethene.

One sample, SB17-50-1099, contained sec-butylbenzene at a concentration of 140 ug/kg. A PRG has not been established for sec-butylbenzene.

Acetone was detected in five soil samples at concentrations ranging from 13 ug/kg to 1,400 ug/kg. Acetone is a common laboratory contaminant. A PRG has not been established for acetone.

Methylene chloride was detected in one sample, SB10-50-0999, at a concentration of 6.6 ug/kg. Methylene chloride is a common laboratory contaminant. A PRG has not been established for methylene chloride.

3.2 SEMI-VOLATILE ORGANIC COMPOUNDS

SVOCs were detected in seven soil samples. The following provides a discussion of the SVOCs detected in the soil samples. Table 3-2 presents the soil sampling analytical results for the detected SVOCs, and Figure 3-2 presents the locations of the detected SVOCs. A table summarizing the analytical results for all of the samples analyzed for SVOCs is presented in Appendix D.

Phenols were detected in one soil sample, SB24-14-0999, at a concentration of 24,000 ug/kg.

Benzidine was detected in three soil samples at concentrations ranging from 800 ug/kg to 1,100 ug/kg.

Phenanthrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene and benzo(a)pyrene were detected in one sample at concentrations of 1,500 ug/kg, 1,200 ug/kg, 1,300 ug/kg, 1,200 ug/kg, 1,300 ug/kg, and 1,000 ug/kg, respectively.

Fluoranthene was detected in two soil samples at concentrations of 460 ug/kg and 3,100 ug/kg, respectively.

Pyrene was detected in two soil samples at concentrations of 390 ug/kg and 2,400 ug/kg, respectively.

Bis(2-ethylhexyl) phthalate was detected in three soil samples at concentrations ranging from 560 ug/kg to 720 ug/kg.

3.3 PCBs/PESTICIDES

PCBs were detected in 23 soil samples, and pesticides were detected in four soil samples. The following provides a discussion of the PCBs and pesticides detected in the soil samples. Table 3-3 presents the soil sampling analytical results for the detected PCBs and pesticides, and Figure 3-3 presents the locations of the detected PCBs and pesticides. A table summarizing the analytical results for all of the samples analyzed for PCBs and pesticides is presented in Appendix E.

Aroclor-1248 was detected in 21 soil samples at concentrations ranging from 130 ug/kg to 790,000 ug/kg. Aroclor-1016 was detected in one soil sample at a concentration of 82,000 ug/kg, and Aroclor-1042 was detected in one soil sample at a concentration of 180,000 ug/kg.

One pesticide compound, chlordane, was detected in four soil samples at concentrations ranging from 60 ug/kg to 400 ug/kg.

3.4 RCRA METALS

RCRA Metals were detected in 119 soil samples. The following provides a discussion of the RCRA Metals detected in the soil samples. Table 3-4 presents a summary of the analytical results for the detected RCRA Metals, and Figure 3-4 presents the locations of the detected RCRA metals. A table summarizing the analytical results for all of the samples analyzed for RCRA Metals is presented in Appendix F.

Arsenic was detected in 39 of the soil samples at concentrations ranging from 6.1 mg/kg to 89 mg/kg, and barium was detected in 26 of the soil samples at concentrations ranging from 1.8 mg/kg to 99 mg/kg. Cadmium was detected in 23 of the soil samples at concentrations ranging

from 0.5 mg/kg to 120 mg/kg, while chromium was detected in 119 of the samples at concentrations ranging from 1.2 mg/kg to 130 mg/kg. Lead was detected in 72 of the soil samples at concentrations ranging from 2.6 mg/kg to 60 mg/kg, and mercury was detected in four soil samples at concentrations ranging from 0.12 mg/kg to 0.95 mg/kg. Silver was detected in five soil samples at concentrations ranging from 0.6 mg/kg to 2.1 mg/kg.

3.5 DATA EVALUATION

Analytical data from this additional soil investigation was compared to available historical data from previous investigations conducted in 1992, 1995 and 1996. Table 3-5 provides a comparison of total VOCs in leach pits between the 1996 and 1999 data. Four of the seven leachate pit locations in which soil borings were installed exhibited total VOC concentrations ranging from 0.0066 ppm at a depth of 50 feet in MH-49 to 559.23 ppm at a depth of 14 feet. During the pre-excavation sampling in 1995 and 1996, 36 of the 37 soil borings installed in leachate pits exhibited total VOC concentrations ranging from 0.02 ppm in MH-40 to 378 ppm in MH-74.

Of the seven corresponding leachate pit locations common to these two investigations, VOCs were not detected in three locations during the 1999 investigation in which they were previously detected in 1996. Previous total VOC concentrations in MH-25, MH-37 and MH-72 were 0.01 ppm, 0.03 ppm and 0.93 ppm, respectively.

In three of the seven corresponding leachate pit locations common to these two investigations, total VOC concentrations decreased in MH-49, MH-71 and MH-80 from 41.1 ppm to 0.0066 ppm, 16.8 ppm to 0.0329 ppm, and 32 ppm to 0.0068 ppm, respectively. In one of the corresponding leachate pit locations common to these two investigations, MH-74, total VOC concentrations increased from 378 ppm to 559.230 ppm at a depth of 14 feet.

4.0 SVE/AS SYSTEM PERFORMANCE

The designed radius of influence was estimated to be approximately 75 feet, resulting in a well spacing of 100 feet including a 50 percent overlap. The design vacuum used was 8.4 inches of water (in.H_2O) at an extraction flow rate of 30 cfm. The Design Analysis Report prepared by CF Braun provided the design parameters based upon the Pilot Study conducted from March to July 1997.

During the period of operation between June of 1998 and December of 1999 it was noted that vacuums were lower than expected in several locations, most notably extraction wells EW-05, EW-09 and EW-16. Vacuums at 12 of the SVE wells decreased between the 1998 and 1999 periods of operation. Of these, average vacuums decreased 0.76 in.H_2O at EW-04, 1.26 in.H_2O at EW-08, 2.44 in.H_2O at EW-13, 2.61 in.H_2O at EW-02, 3.04 in.H_2O at EW-01, 3.64 in.H_2O at EW-12, 3.75 in.H_2O at EEW-11, 3.94 in.H_2O at EW-03, 4.12 in.H_2O at EW-10, 4.28 in.H_2O at EW-07, 4.34 in.H_2O at EW-09 and 5.03 in. H_2O at EW05. Vacuum at one of the SVE wells increased during the same period. The average vacuum increased at 0.09 inches of water at EW-06.

Only three of the extraction wells, EW-03, EW-05 and EW-07, produced average vacuums greater than 8.4 in.H_2O during system operation in 1998. The average vacuum of the 13 extraction wells was approximately 7.0 in.H_2O during that period of operation. None of the extraction wells produced average vacuums greater than 5.0 in.H_2O during system operation in 1999. Five of the soil vapor extraction wells used during the pilot study were incorporated into the treatment system during 1999 to expedite the removal process towards the central portion of the site. The average vacuum of the five additional extraction wells was approximately 2.5 in.H_2O during system operation in 1999. The average vacuum of the 13 original extraction wells was approximately 4.0 in.H_2O during system operation in 1999. The average vacuum of all 18 extraction wells was approximately 3.5 in.H_2O during this recent period of operation.

This decrease of vacuum during system operation in 1999 may, in part, be due to the addition of the five pilot study soil vapor extraction wells, two of which were shallow, to the existing system, thereby reducing the vacuum at individual wells. An additional potential contributing factor for the decrease may be the development of stagnant conditions between adjacent extraction wells. This factor could be compounded due to the lower than designed flow rates, vacuums, and radii of influence at soil vapor and air injection well locations. In addition, the incorporation of two shallow pilot study soil vapor extraction wells, EW-17 and EW-18, in 1999 may have induced preferentially surficial flow in the central area of the site.

During start-up activities in March of 1999, the diameter of the air injection blower sheave was reduced to enhance blower performance and thereby increase air flow.

During the period of operation between June of 1998 and December of 1999, it was noted that flow rates were lower than expected in several locations, most notably extraction wells EW-05, EW-09 and EW-16. Average flow rates at ten of the SVE wells decreased between the 1998 and

1999 periods of operation. Of these, average flow rates decreased at 7.7 ft./min. at EW-08, 160.31 ft./min. at EW-06, 210.5 ft./min. at EW-04, 216.64 ft./min. at EW-10, 359.62 ft./min. at EW-03, 468.96 ft./min. at EW-02, 475.71 ft./min. at EW-11, 504.26 ft./min. at EW-01, and 557.94 ft./min. at EW-12. Flow rates at three of the SVE wells increased during the same period. Of these, average flow rates increased at 10.38 ft./min. at EW-05, 68.54 ft./min. at EW-07 and 150.94 ft./min. at EW-09. Table 4-1 provides a summary of flow rates in soil vapor extraction wells. These lower flow rates resulted in reduced radii of influence at these locations.

These lower than anticipated vacuums are reducing the systems ability to produce uniform flow throughout the soil column, particularly the shallow unconsolidated deposits. This reduced ability is more pronounced in locations in the east and central portions of the site where a significant clay lens is present. The screened interval in 16 of the 18 soil vapor extraction wells is from 45 to 60 feet bgs. Approximately 10 feet of well screen is exposed to the soil column and vadose zone. The clay lens is located above the top of the screened interval and precludes uniform flow patterns.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

Analysis of the additional soil investigation samples indicates that VOCs above the preliminary remediation goals (PRGs) are present in several of the soil boring locations. Table 5-1 provides a summary of VOCs detected in the soil samples compared to the PRGs. These VOCs were present at depths ranging from 3 to 50 feet. This indicates the contaminated soil vapor in several areas of the site is not being captured by the existing soil vapor extraction wells.

Three of the 26 soil borings contained VOCs at concentrations exceeding the PRGs established for this site. These soil boring locations, SB-06, SB-17 and SB-24, correspond to leachate pits MH-25, MH-49, MH-71 and MH-74, respectively. The depths of VOC contamination exceeding the PRGs in these locations ranged from 3 to 50 feet bgs. The presence of VOCs at shallow depths indicates the inability of the current soil vapor extraction wells to remove more surficial VOCs.

There are several areas where VOCs were not detected in soil during the additional soil investigation. VOCs were not detected in the following 18 soil boring locations: SB01, SB-03, SB-04, SB-07, SB-09, SB-11, SB-13, SB-15, SB-16, SB-18, SB-19, SB-20, SB-21, SB-22, SB-23, SB-24, SB-25 and SB-26, although other site contaminants, such as polyaromatic hydrocarbons (PAHs), PCBs and metals are present in these locations. These soil boring locations are associated with the following leachate pit locations; MH-72, MH-78, MH-79, MH-80. Soil boring locations were evaluated in comparison to existing soil vapor extraction well locations.

It should be noted that this additional soil investigation was designed to address the known areas of significant VOC concentrations previously identified in other investigations. In addition, this additional soil investigation only addressed these areas at the northern central and eastern portions of the site, and is not representative of potential concentrations in all leachate pits or in soil underlying the remainder of the site.

It should also be noted that the SVE/AS system is not treating metals or PCBs that are present in the site soils.

Based on the current distribution of constituents of concern at the site, modifications will be necessary to achieve program remediation goals for VOCs in soil across the site.

5.2 RECOMMENDATIONS

Over the past year of operation the average vacuum in extraction wells has dropped significantly from the design vacuum of 8 inches. This is the result of additional wells being placed on the system and potential air infiltration from the surface at shallow wells in locations where asphalt surface is not present. Foster Wheeler proposes to optimize the present system by evaluating the

overall system and consolidating the extraction to the areas of elevated VOC contamination. This optimization will utilize the current network for wells and blower. Modifications will be limited to surface piping adjustments and throttling of system segments. The following outlines the proposed approach.

1. Presently the system has been shut down for the winter. Prior to system start-up maintenance will be required to replace worn parts, reseal and replace piping where required, replace spent carbon and other general maintenance procedures. The system will then be started and inspected. Additional maintenance items identified after start-up will then be repaired.

2. To determine present performance of VOC extraction, Foster Wheeler proposes to collect vapor samples from each extraction well within the system. The system will be tested in zones allowing the design vacuum of 8 inches to be applied to the well being tested and surrounding wells to ensure the design influence is being met when the vapor sample is taken. The resulting vapor results will be used to determine which extraction wells can be removed from the system. In addition, potential improvements such as surface capping or additional piping will be evaluated.

   Based on findings, Foster Wheeler will perform modifications to the system and evaluate performance of the system to determine if implemented changes are sufficient or if additional adjustments are required. Additional vapor samples will be performed as required to further evaluate performance of the system. Foster Wheeler will coordinate closely with the Navy on planned adjustments and modifications.

   Periodic headspace readings will be collected from each removed well to ensure that VOC vapors do not accumulate within the well once it has been removed from service. In the event VOC vapors are found in a well removed from service, it would be brought back into service for a limited period of time until the presence of VOC vapors is no longer detected.

3. Based on the findings of the system evaluation, Foster Wheeler will prepare an Engineering Report presenting findings and implemented system recommendations for optimization of the existing system. The report will be submitted to the Navy for review and comment.

4. The system will then be operated until December 2000, as weather permits. Foster Wheeler will provide monthly O&M reports to the Navy documenting system performance.

5. VOC sampling and analysis of 10 soil boring locations within the active area of the system will be performed in the Fall of 2000 to evaluate the removal efficiency of the system under the revised configuration.

TABLE 3-1
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS						
	SAMPLE DESIGNATION					
COMPOUND	SB02-30-0999	SB06-03-0999	SB06-10-0999	SB06-50-0999	SB08-50-0999	SB10-50-0999
Acetone		13	18	62	15	
Methylene Chloride						6.6
1,1,1-Trichloroethane				17		
Trichloroethene		18				
Tetrachloroethene		120	89	260	22	
Methyl tertiary butyl ether	59					
Toluene						
sec-Butylbenzene						
p-Isopropyltoluene				100	5.7	
Ethylbenzene	8		7.4			
o-Xylene	12			82		
m+p-Xylene	28		30			
Naphthalene		6				
n-Butylbenzene		5.1		19		
n-Propylbenzene			6.2	6.6		
cis-1,2-Dichloroethene						
1,2,3-Trichlorobenzene						
1,2,4-Trichlorobenzene						
1,2,4-Trimethylbenzene		8.2	28	190	5	
1,3,5-Trimethylbenzene		5.4	9.3	24		

NOTES:
1. All results are expressed in micrograms per kilogram (ug/kg).
2. Blank - Compound was analyzed for but not detected.

TABLE 3-1
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS							
	SAMPLE DESIGNATION						
COMPOUND	SB12-20-1099	SB14-20-1099	SB17-50-1099	SB24-14-0999	SB24-20-0999	SB24-30-0999	SB24-50-0999
Acetone				1400			
Methylene Chloride							
1,1,1-Trichloroethane				4400			
Trichloroethene				73000			
Tetrachloroethene		6.8	2200	460000	88		7.2
Methyl tertiary butyl ether						150	
Toluene				8900			
sec-Butylbenzene			140				
p-Isopropyltoluene			89				
Ethylbenzene				980			
o-Xylene				1100			
m+p-Xylene				3100			
Naphthalene				2500			
n-Butylbenzene							
n-Propylbenzene							
cis-1,2-Dichloroethene				650			
1,2,3-Trichlorobenzene	9.9						
1,2,4-Trichlorobenzene	23		58				
1,2,4-Trimethylbenzene				2100			
1,3,5-Trimethylbenzene			69	1100	5.5		

NOTES:
1. All results are expressed in micrograms per kilogram (ug/kg).
2. Blank - Compound was analyzed for but not detected.

TABLE 3-2
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS							
	SAMPLE DESIGNATION						
COMPOUND	SB06-10-0999	SB08-50-0999	SB10-24-0999	SB10-35-0999	SB10-50-0999	SB17-50-1099	SB24-14-0999
Benzidine	1100	840				800	
Phenanthrene				1500			
Benzo (a) anthracene				1200			
Chrysene				1300			
Benzo (b) fluoranthene				1200			
Benzo (k) fluoranthene				1300			
Benzo (a) pyrene				1000			
Phenol							24000
Fluoranthene			460	3100			
Pyrene			390	2400			
bis(2-ethylhexyl)phthalate	720	480			560		

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. Blank indicates compound was not detected.

TABLE 3-3
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR PESTICIDES/PCBs
SAMPLE DESIGNATION

COMPOUND	SB06-03-0999	SB06-10-0999	SB06-20-0999	SB06-50-0999	SB08-10-0999	SB08-20-0999	SB08-20-0999 MS/MSD	SB08-50-0999
Chlordane								
Aroclor-1016								
Aroclor-1242				180000				
Aroclor-1248	190000	140000	330	72000	12000	740	1000	57000

COMPOUND	SB10-24-0999	SB10-30-0999	SB10-35-0999	SB10-40-0999	SB11-40-1099	SB11-40D-1099 Duplicate	SB12-20-1099	SB12-30-1099
Chlordane		100		130				
Aroclor-1016								
Aroclor-1242								
Aroclor-1248	610		3500		1400	1400	540000	790000

COMPOUND	SB12-30D-1099 Duplicate	SB12-40-1099	SB12-50-1099	SB13-20-0999	SB14-20-1099	SB14-30-1099	SB15-10-1099	SB16-10-1099
Chlordane								400
Aroclor-1016								
Aroclor-1242								
Aroclor-1248	820000	950	48000	560	6100	1600	2600	

COMPOUND	SB16-20-1099	SB17-50-1099	SB19-10-1099	SB19-20-1099	SB24-20-0999
Chlordane	60				
Aroclor-1016		82000			
Aroclor-1242					
Aroclor-1248			260	130	860

NOTES:
1. All results are expressed in micrograms per kilogram (ug/kg).
2. Blank - Compound was analyzed for but not detected.

TABLE 3-4
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR RCRA METALS
SAMPLE DESIGNATION

COMPOUND	SB01-20-0999	SB01-30-0999	SB01-40-0999	SB01-48-0999	SB02-20-0999	SB02-30-0999	SB02-40-0999	SB02-48-0999	SB02-48D-0999 Duplicate	SB03-20-0999
Arsenic		8.7				32				
Barium										
Cadmium						1.8				
Chromium	7	13	6.8	2.9	6.1	42	2.6	2.3	2.8	5.6
Lead		3.4		3.3		9.3				
Mercury										
Selenium										
Silver										

COMPOUND	SB03-30-0999	SB03-40-0999	SB03-48-0999	SB04-30-0999	SB04-40-0999	SB04-50-0999	SB06-03-0999	SB06-10-0999	SB06-20-0999	SB06-30-0999
Arsenic	23			45			6.8			11
Barium					10		58	5	11	
Cadmium							16			
Chromium	35	3.1	1.7	47	6.8	2.9	100	7.5	6.4	12
Lead	7.5	3		12	5.1		98			3.2
Mercury							0.12			
Selenium										
Silver										

COMPOUND	SB06-40-0999	SB06-50-0999	SB07-10-0999	SB07-20-0999	SB07-30-0999	SB07-40-0999	SB07-50-0999	SB08-10-0999	SB08-20-0999	SB08-20-0999 MS/MSD
Arsenic	89				25	37				22
Barium		2.5								11
Cadmium		2.5			0.5					
Chromium	110	2.9	9.3	5.6	32	52	5.4	4	4.4	38
Lead	28				7	12				8.5
Mercury										
Selenium										
Silver										

Notes: 1) All results are expressed in milligrams per kilogram (mg/kg).
2) Blank indicates compound was analyzed for but not detected.

TABLE 3-4
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR RCRA METALS
SAMPLE DESIGNATION

COMPOUND	SB08-40-0999	SB08-50-0999	SB09-20-0999	SB09-30-0999	SB09-40-0999	SB10-24-0999	SB10-30-0999	SB10-35-0999	SB10-40-0999	SB10-50-0999
Arsenic	33		7.1	15			44	6.6		
Barium						16	3.6	16	2.3	1.8
Cadmium					0.62	11		4		0.6
Chromium	71	3.2	7.7	22	3.7	14	52	13	1.2	2.4
Lead	9.4	8.2	3.5	5.3		7.6	15	24		
Mercury								0.15		
Selenium										
Silver						0.6				

COMPOUND	SB11-10-1099	SB11-20-1099	SB11-30-1099	SB11-40-1099	SB11-40D-1099 Duplicate	SB11-50-1099	SB12-20-1099	SB12-30-1099	SB12-30D-1099 Duplicate	SB12-40-1099
Arsenic			25					11	19	
Barium			4.2						7.4	
Cadmium			1.3			0.86		0.59		
Chromium	7.6	6.5	35	11	9.1	2.2	13	23	28	2.9
Lead	3.4		8.6	3.3	2.8		7.2	7.9	18	3.4
Mercury										
Selenium										
Silver							1.1			

COMPOUND	SB12-50-1099	SB13-20-1099	SB13-30-1099	SB13-40-1099	SB13-50-1099	SB14-20-1099	SB14-30-1099	SB14-40-1099	SB14-50-1099	SB15-10-1099
Arsenic			40	21			16	24		6.1
Barium		14	12							38
Cadmium	0.81	5.4				1.4				
Chromium	1.6	15	44	23	5.2	14	43	54	3	15
Lead		3.1	16	7.2	2.8	5.1	7.2	8.2		9.2
Mercury										
Selenium										
Silver										

Notes: 1) All results are expressed in milligrams per kilogram (mg/kg)
2) Blank indicates compound was analyzed for but not detected.

TABLE 3-4
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR RCRA METALS
SAMPLE DESIGNATION

COMPOUND	SB15-20-1099	SB15-40-1099	SB15-50-1099	SB16-10-1099	SB16-20-1099	SB16-30-1099	SB16-40-1099	SB16-50-1099	SB17-10-1099	SB17-20-1099
Arsenic		14				30				
Barium	6.9									
Cadmium										
Chromium	3.4	49	2.5	8.6	8.9	67	3	2.2	3.4	4.4
Lead	2.6	9.7	3.4	3.1		12	3.1			
Mercury										
Selenium										
Silver										

COMPOUND	SB17-30-1099	SB-17-40-1099	SB17-50-1099	SB18-10-1099	SB18-20-1099	SB18-30-1099	SB18-40-1099	SB18-50-1099	SB19-10-1099	SB19-20-1099
Arsenic	17					28				
Barium				11						
Cadmium			0.82					4.7		
Chromium	28	1.4	2	8.3	3.4	31	5.5	6.2	6.5	3
Lead	6.3					8.7	3.8	4		
Mercury										
Selenium										
Silver										

COMPOUND	SB19-30-1099	SB19-40-1099	SB19-50-1099	SB20-10-1099	SB20-20-1099	SB20-30-1099	SB20-40-1099	SB20-50-1099	SB21-10-1099	SB21-20-1099
Arsenic	57	9.7								
Barium			13			17				
Cadmium										
Chromium	58	8	4.7	6.6	6.4	27	2.9	7	5	3.5
Lead	18		5.3			5.9		5.4		
Mercury										
Selenium										
Silver		0.77								

Notes: 1) All results are expressed in milligrams per kilogram (mg/kg).
2) Blank indicates compund was analyzed for but not detected.

TABLE 3-4
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR RCRA METALS
SAMPLE DESIGNATION

COMPOUND	SB21-30-1099	SB21-40-1099	SB21-40D-1099 Duplicate	SB21-50-1099	SB22-10-1099	SB22-20-1099	SB22-30-1099	SB22-40-1099	SB22-50-1099	SB23-10-1099
Arsenic	55						22		10	
Barium										
Cadmium	0.78			1						
Chromium	130	5.4	2.9	5.3	21	2.8	40	3.2	10	3.5
Lead	12						8.1		3.8	
Mercury										
Selenium										
Silver										

COMPOUND	SB23-20-1099	SB23-30-1099	SB23-40-1099	SB23-50-1099	SB24-14-0999	SB24-20-0999	SB24-30-0999	SB24-40-0999	SB24-50-0999	SB25-10-1099
Arsenic		7.3			27	17	14			9.9
Barium					30	11	6.2		15	10
Cadmium					120	2.5	5			0.53
Chromium	4.4	31	3.1	2.5	91	27	38	3.7	2.6	8.9
Lead		5.2	3.1		60	10	7.9	3.3	6.6	3.4
Mercury					0.95				0.17	
Selenium										
Silver			2.1		3.8					

COMPOUND	SB25-20-1099	SB25-30-1099	SB25-40-1099	SB25-50-1099	SB26-10-0999	SB26-20-0999	SB26-30-0999	SB26-40-0999	SB26-50-0999	SB27-10-1099
Arsenic		15					19	6.2		
Barium				99					28	
Cadmium										
Chromium	5.6	38	4.3	21	5.4	8.9	22	12	6	4.8
Lead		6.5	3.4	12			5.3	3.4	8.6	3.2
Mercury										
Selenium										
Silver										

Notes: 1) All results are expressed in milligrams per kilogram (mg/kg).
2) Blank indicates compound was analyzed for but not detected.

TABLE 3-4
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR RCRA METALS
SAMPLE DESIGNATION

COMPOUND	SB27-20-1099	SB27-30-1099	SB27-40-1099	SB27-50-1099
Arsenic		21		
Barium				10
Cadmium	1.2			
Chromium	9.8	53	2	3.1
Lead	4.7	10	4.5	5.8
Mercury				
Selenium				
Silver				

Notes: 1) All results are expressed in milligrams per kilogram (mg/kg).
2) Blank indicates compound was analyzed for but not detected.

TABLE 3-5
BETHPAGE-NWIRP
COMPARISON OF TOTAL VOCS IN LEACHATE PIT SAMPLES
BETHPAGE, NEW YORK

Manhole	TCL Sample Taken September/ October 1999 (ppm)	TCLP Sample Taken March/April 1996 (ppm)	Approximate Soil Concentration (ppm)	TCL Sample Taken November 1995 (ppm)	TCL Sample Taken May 1992 (ppm)
MH-3		0.02	0.4		
MH-5		--	--	4.12 at 6-8 ft *	
MH-15		7.4	148		
MH-16		0.06	1.2		
MH-18		0.01	0.2		
MH-19		0.04	0.8		
MH-25	ND	0.01 at 10-16 ft	0.2	0.016 at 2-4 ft *	
MH-26		0.01	0.2		
MH-37	ND	0.03 at 10-16 ft	0.6		
MH-38		0.15 at 10-18 ft	3		5.078 at 3 ft *
MH-39		0.04	0.8		
MH-40		--	0.02		
MH-49	0.0066 at 50 ft	--	41.1		
MH-51		0.24	4.8		
MH-52		0.06	1.2		
MH-53		0.03	0.6		
MH-63		0.05	1		
MH-70		0.24	4.8		
MH-71	0.0329 at 20 ft	0.84 at 14-16 ft	16.8		0.018 at 3 ft *
MH-72	ND	0.93 at 13-14 ft	18.6		
MH-73		0.05	1		
MH-74	559. 230 at 14 ft	18.9 at 10-18 ft	378	0.0119 at 10-12 ft *	
MH-75		0.15	3		
MH-78		0.28	5.6		
MH-79		1.79	35.8		
MH-80	0.0068 at 20 ft	1.6 at 10-16 ft	32		
MH-82		0.06	1.2		
MH-87		0.35 at 13-14 ft *	7	0.1138 at 2-4 ft *	0.002 at 3 ft and 0.003 at 19 ft *
MH-88		0.65 at 10-16 ft	13		
MH-92		0.6	12		
MH-93		0.67	13.4		
MH-97		0.21	4.2		
MH-102		0.08	1.6		
MH-103		0.04	0.8		
MH-104		0.05	1		
MH-111		0.03	0.6		
MH-112		0.02	0.4		

* - Boring taken within five feet of the manhole.
Note: Depth of samples determined by sample ID in data tables.

TABLE 4-1
BETHPAGE-NWIRP
SUMMARY OF AVERAGE FLOW RATES IN SOIL VAPOR EXTRACTION WELLS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

Date Designed	EW-01		EW-02		EW-03		EW-04		EW-05		EW-06	
	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum
1998	1432.14	6.72	1478.57	7.12	1387.5	8.44	1262.5	5.03	90	9.49	1292.31	4.51
1999	927.88	3.68	1009.61	4.51	1027.88	4.5	1052	4.27	100.38	4.46	1132	4.6
Decrease	504.26	3.04	468.96	2.61	359.62	3.94	210.5	0.76		5.03	160.31	
Increase									10.38			0.09

Date Designed	EW-07		EW-08		EW-09		EW-10		EW-11		EW-12	
	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum
1998	878.57	9.04	1203.85	6.06	417.86	7.89	1294.64	7.8	1285.71	6.72	1307.14	6.49
1999	947.11	4.76	1196.15	4.8	568.8	3.55	1078	3.68	810	2.9657	749.2	2.87
Decrease		4.28	7.7	1.26		4.34	216.64	4.12	475.71	3.7543	557.94	3.62
Increase	68.54				150.94							

Date Designed	EW-13		EW-14		EW-15		EW-16		EW-17		EW-18	
	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum	Flow	Vacuum
1998	1296.43	5.74										
1999	779	3.3	627.8	2.51	935	3.25	265.2	4.04	912.5	0.94	1342.5	1.4
Decrease	517.43	2.44										
Increase												

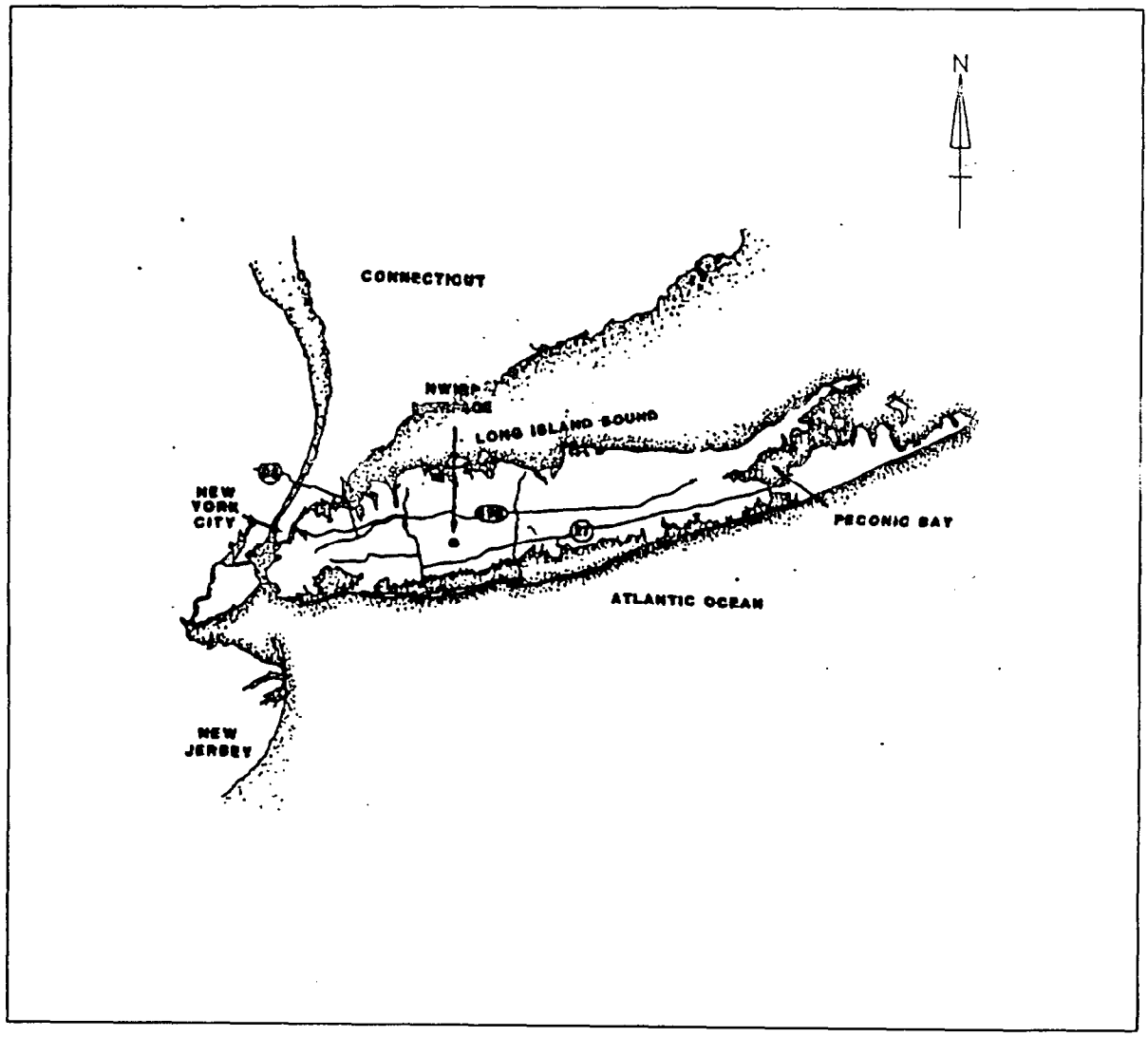
Notes:

1. Vacuum measurements are expressed in " H^2O.
2. Flow measurements are expressed in ft/min.

TABLE 5-1
PRIMARY REMEDIATION GOAL COMPARISON
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

COMPOUND	Preliminary Remediation Goals for Soil	SB06-03-0999	SB06-10-0999	SB06-50-0999	SB17-50-1099	SB24-14-0999	SB24-20-0999
1,1,1-Trichloroethane	10 ug/kg			17		4400	
Trichloroethene	10 ug/kg	18				73000	
Tetrachloroethene	27 ug/kg	120	89	260	2200	460000	88

Notes:
1. All results are expressed in micrograms per kilogram (ug/kg).
2. Blank indicates compound was analyzed for but not detected.
3. Preliminary Remediation goals. (3 times the regulatory level).



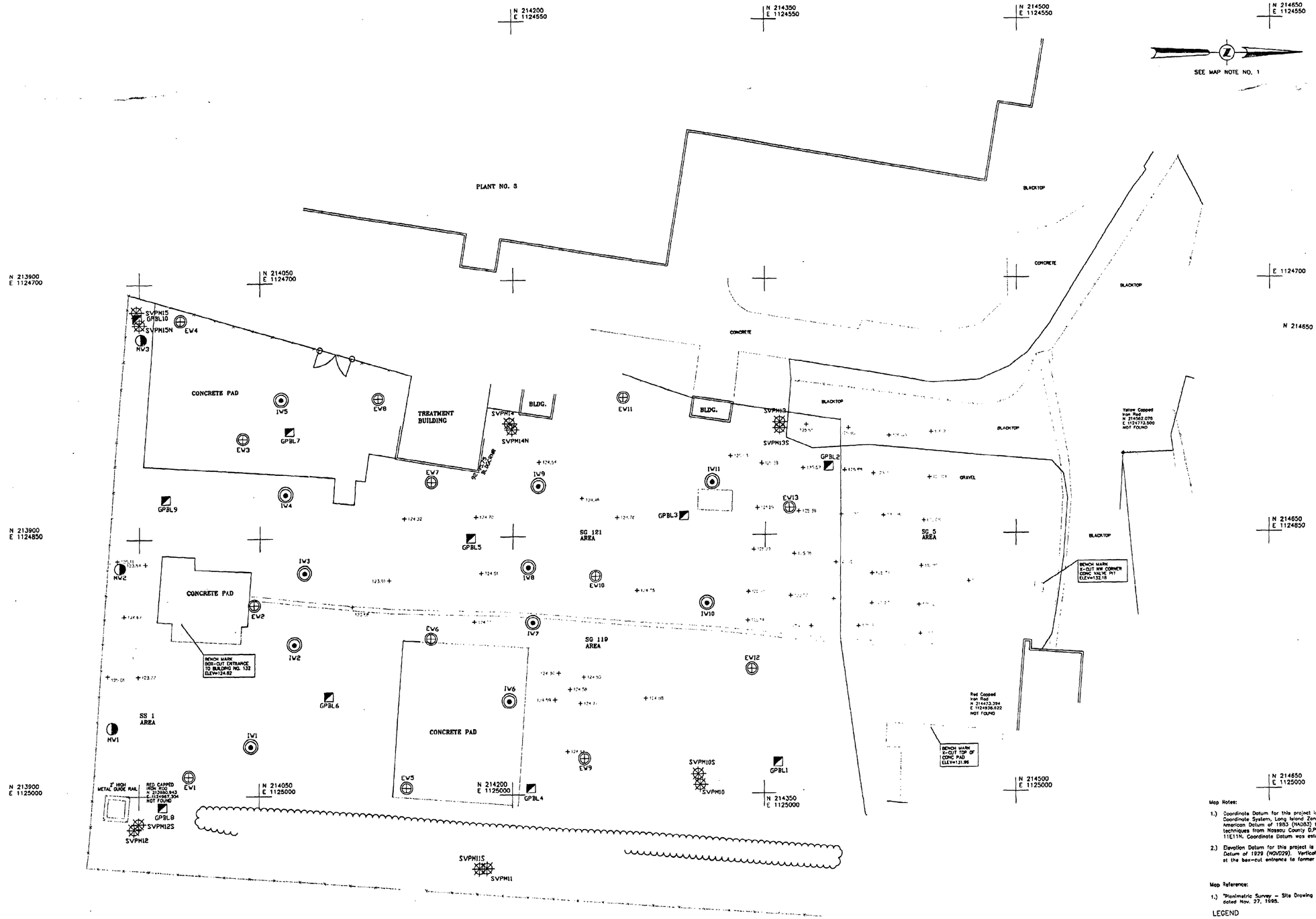
NAVAL WEAPONS RESERVE PLANT
BETHPAGE, N.Y.

FIGURE 1-1

SITE LOCATION MAP

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CAD FILE NAME: BP11400.DWG DATE: 1/14/2000
PLOT FILE: 1=1 TIME: 3:40 PM



Map Notes:

1.) Coordinate Datum for this project is based on the New York State Plane Coordinate System, Long Island Zone (3104) established on the North American Datum of 1983 (NAD83) through the use of differential GPS techniques from Nassau County D.P.W. Stations 18E13NAZ, 18E12N and 11E11N. Coordinate Datum was established by C.T. Male Associates in 1995.

2.) Elevation Datum for this project is the National Geodetic Vertical Datum of 1929 (NGVD29). Vertical Control is based at the box-cut entrance to former Building No. 132 (Elev=124.82) the Bench Mark

Map Reference:

1.) "Planimetric Survey – Site Drawing No. 95 – 525" by C.T. Male Associates, P.C. dated Nov. 27, 1995.

LEGEND

GPBL	GEOPROBE BORING LOCATION	SURVEYED BY AMERICAN GEOTECH, 8/25/98
AI	AIR INJECTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
EW	EXTRACTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
SVPM	SOIL VAPOR PRESSURE MONITOR	SURVEYED BY AMERICAN GEOTECH, 8/25/98
MW	MONITORING WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
	C.T. MALE SURVEY BASELINE	
124.82 +	ELEVATION POINTS	
SB01	BORINGS FROM GROUND SURFACE	

FOSTER WHEELER ENVIRONMENTAL

REV.	DESCRIPTION	PREP BY	DATE	APPRVD

DRN: SUBM'D BY: CH CHK: NORTHDIV DM: PPC: OFFICER IN CHARGE — APPROVED — DATE

NAVAL FACILITIES ENGINEERING COMMAND
PENNSYLVANIA, PA
BETHPAGE, NEW YORK

DEPARTMENT OF THE NAVY
NAVAL BASE
NNSRP

NORTHERN DIVISION

FIGURE 1-2
SITE PLAN
SITE 1 – FORMER DRUM MARSHALLING AREA

NORTHDIV FOR COMMANDER, NAVFAC

DATE — APPROVED

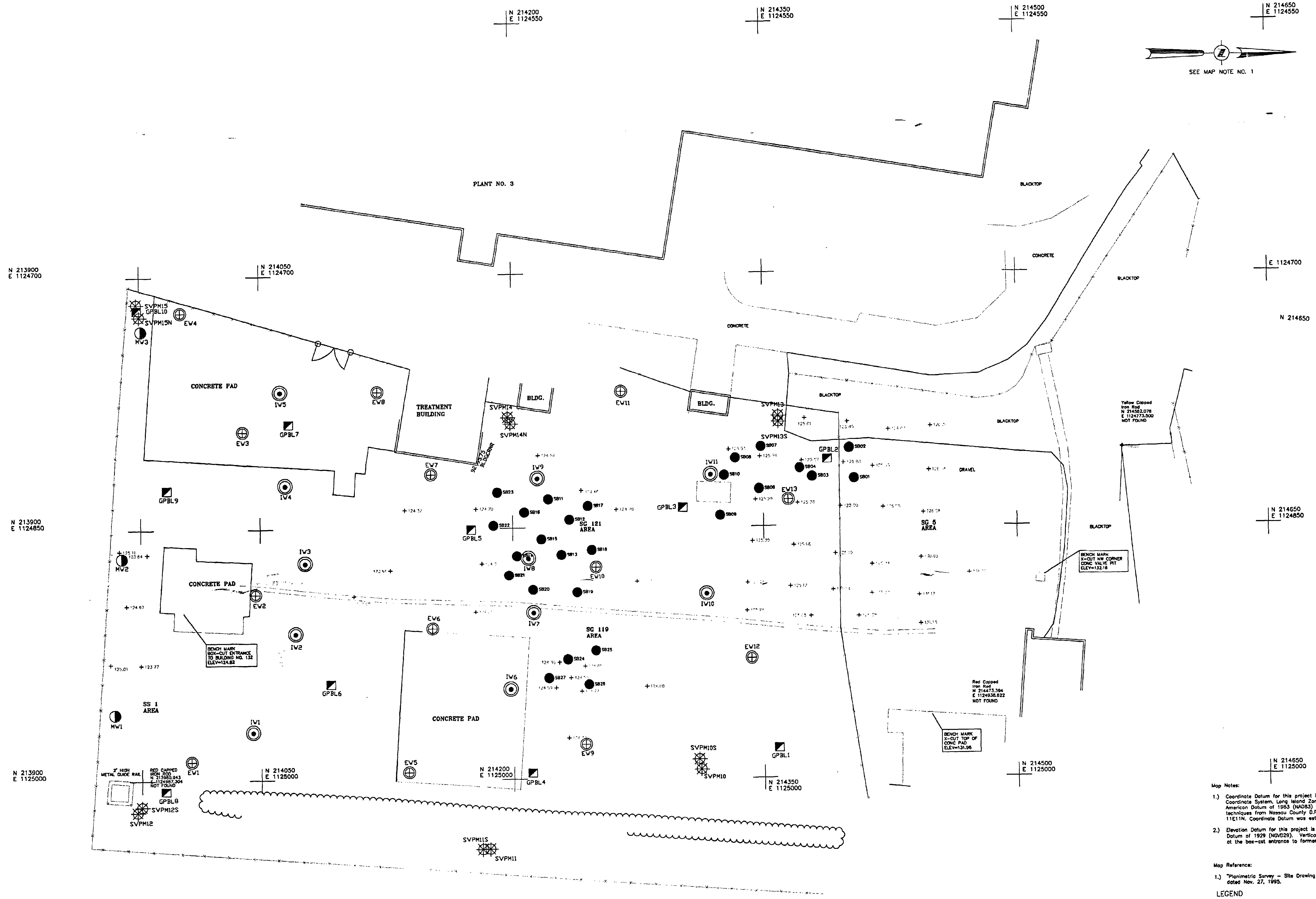
SEAL AREA

SAT TO — DATE

CODE I.D. NO.	80091
SCALE : 1"=30'-0"	
SPEC. NO. 04-	
CONSTRN. CONTR. NO.	
N6247-	
NAVFAC DRAWING NO.	
SHEET	OF
SIZE: D	DIS. SH. NO.

DATE CREATED
LATEST CHANGE
CHANGED BY:

CAD FILENAME: NAVI12A.DWG DATE: 1/13/00
PLOT SCALE: 1=30 TIME: 12:55 PM



Map Notes:

1.) Coordinate Datum for this project is based on the New York State Plane Coordinate System, Long Island Zone (3104) established on the North American Datum of 1983 (NAD83) through the use of differential GPS techniques from Nassau County D.P.W. Stations 18E13NAZ, 18E12N and 11E11N. Coordinate Datum was established by C.T. Male Associates in 1995.

2.) Elevation Datum for this project is the National Geodetic Vertical Datum of 1929 (NGVD29). Vertical Control is based at the box-cut entrance to former Building No. 132 (Elev=124.82) on the Bench Mark

Map Reference:

1.) "Planimetric Survey – Site Drawing No. 95 – 525" by C.T. Male Associates, P.C. dated Nov. 27, 1995.

LEGEND

◩	GPBL	GEOPROBE BORING LOCATION	SURVEYED BY AMERICAN GEOTECH, 8/25/98
◉	AI	AIR INJECTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
⊕	EW	EXTRACTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
✳	SVPM	SOIL VAPOR PRESSURE MONITOR	SURVEYED BY AMERICAN GEOTECH, 8/25/98
◐	MW	MONITORING WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
○		C.T. MALE SURVEY BASELINE	
124.35 +		ELEVATION POINTS	
●	SB01	BORINGS FROM GROUND SURFACE	

FOSTER WHEELER ENVIRONMENTAL

DSGN: DR: CHK:
SUPV: CH ENG:
SUBMITTED BY: (FIRM MEMBER) (TITLE) (DATE)
NORTHDIV DM: HD:
FPC: HD:
DIR:
OFFICER IN CHARGE
APPROVED DATE

REV.	DESCRIPTION	PREP BY	DATE	APPRVD

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
PENNSYLVANIA, PA
NAVAL BASE
NWIRP
BETHPAGE, NEW YORK

FIGURE 2–1
ADDITIONAL SOIL BORING LOCATION MAP
SITE 1 – FORMER DRUM MARSHALLING AREA

APPROVED
DATE
NORTHDIV FOR COMMANDER, NAVFAC

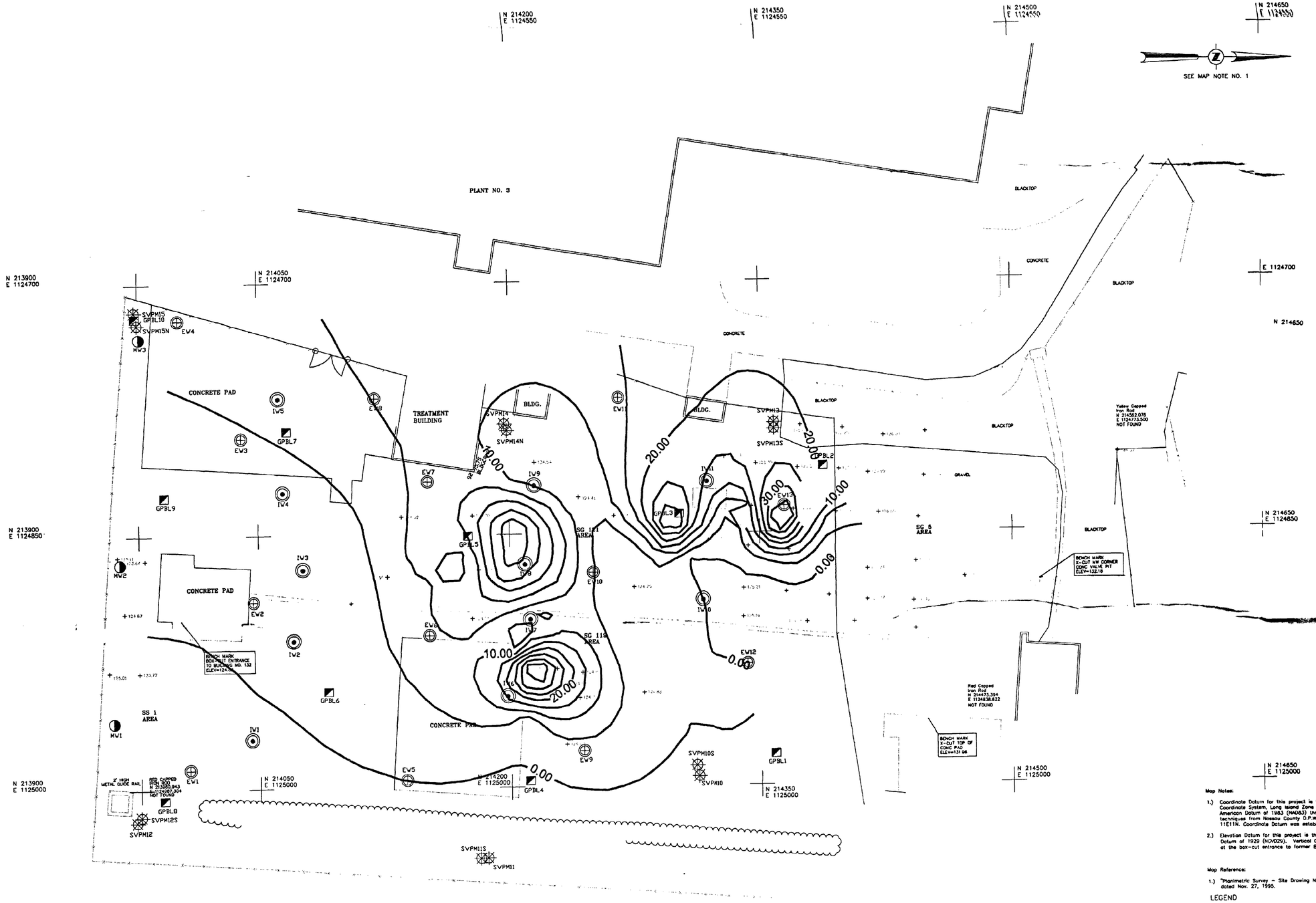
SEAL AREA

SAT TO DATE

CODE I.D. NO. 80091
SCALE : 1"=30'-0"
SPEC. NO. 04–
CONSTRN. CONTR. NO.
N62472–
NAVFAC DRAWING NO.
SHEET OF
SIZE: D
DIS. SH. NO.

CAD FILENAME: NAV1128.DWG DATE: 1/13/2000
PLOT SCALE: 1=30 TIME: 10:55 AM

DATE CREATED
LATEST CHANGE
CHANGED BY:



Map Notes:

1.) Coordinate Datum for this project is based on the New York State Plane Coordinate System, Long Island Zone (3104) established on the North American Datum of 1983 (NAD83) through the use of differential GPS techniques from Nassau County D.P.W. Stations 18E13MMZ, 18E12N and 11E11N. Coordinate Datum was established by C.T. Male Associates in 1995.

2.) Elevation Datum for this project is the National Geodetic Vertical Datum of 1929 (NGVD29). Vertical Control is based at the box-cut entrance to former Building No. 132 (Elev=124.82) on the Bench Mark

Map Reference:

1.) "Planimetric Survey – Site Drawing No. 95 – 525" by C.T. Male Associates, P.C. dated Nov. 27, 1995.

LEGEND

◪	GPBL	GEOPROBE BORING LOCATION	SURVEYED BY AMERICAN GEOTECH, 8/25/98
◎	AI	AIR INJECTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
⊕	EW	EXTRACTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
✲	SVPM	SOIL VAPOR PRESSURE MONITOR	SURVEYED BY AMERICAN GEOTECH, 8/25/98
◑	MW	MONITORING WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
○		C.T. MALE SURVEY BASELINE	
····+		ELEVATION POINTS	
●	SB01	BORINGS FROM GROUND SURFACE	

FOSTER WHEELER ENVIRONMENTAL

ESD APP'D	DSC	CH. ENG.	(AVG)
SUBMITTED BY:		TITLE (ACAD)	
NUMBER		NO.	
DSC		NO.	
FYC		DR.	
OFFICER IN CHARGE			DATE
APPROVED			

REV.	DESCRIPTION	PREP BY	DATE	APPRVD

NAVAL FACILITIES ENGINEERING COMMAND
PENNSYLVANIA, PA
BETHPAGE, NEW YORK

DEPARTMENT OF THE NAVY
NORTHERN DIVISION

FIGURE 2-2
LEACHATE PIT VOC CONCENTRATIONS-SPRING 1996
SITE 1 - FORMER DRUM MARSHALLING AREA

NAVAL BASE
MAP

NORFOLK FOR COMMANDER, NAVFAC

DATE

APPROVED

SEAL AREA

SAT TO	DATE
CODE I.D. NO.	80091
SCALE : 1"=30'-0"	
SPEC. NO. 04-	
CONSTRN. CONTR. NO. N62472-	
NAVFAC DRAWING NO.	
SHEET	OF
SIZE: D	DIS. SH. NO.

DATE CREATED
LATEST CHANGE
CHANGED BY:

CAD FILENAME: NAV112C.DWG
PLOT SCALE: 1=30

DATE: 1/14/2000
TIME: 9:00 AM

SB14–20–0999	
Tetrachloroethene	6.8

SB12–20–0999	
1,2,3–Trichlorobenzene	9.9
1,2,4–Trichlorobenzene	23

SB17–50–0999	
Tetrachloroethene	2200
sec–Butylbenzene	140
p–Isopropyltoluene	89
1,2,4–Trichlorobenzene	58
1,2,5–Trimethylbenzene	69

SB10–50–0999	
Methylene Chloride	6.6

SB08–50–0999	
Acetone	15
Tetrachlorethene	22
p–Isopropyltoluene	5.7
1,2,4–Trimethylbenzene	5

SB02–30–0999	
Methyl tertiary butyl ether	59
Ethylbenzene	8
o–Xylene	12
m+p–Xylene	28

SB24–14–0999	
Acetone	1400
1,1,1–Trichloroethane	4400
Trichloroethene	73000
Tetrachloroethene	460000
Toluene	8900
Ethylbenzene	980
o–Xylene	1100
m+p–Xylene	3100
Naphthalene	2500
cis–1,2–Dichloroethene	650
1,2,4–Trimethylbenzene	2100
1,2,5–Trimethylbenzene	1100

SB24–20–0999	
Tetrachloroethene	88
1,2,5–Trimethylbenzene	5.5

SB24–30–0999	
Methyl tertiary butyl ether	150

SB24–50–0999	
Tetrachloroethene	7.2

SB06–03–0999	
Acetone	13
Trichloroethene	18
Tetrachlorethene	120
Naphthalene	6
n–Butylbenzene	5.1
1,2,4–Trimethylbenzene	8.2
1,2,5–Trimethylbenzene	5.4

SB06–10–0999	
Acetone	18
Tetrachlorethene	89
Ethylbenzene	7.4
m+p–Xylene	30
n–Propylbenzene	6.2
1,2,4–Trimethylbenzene	28
1,2,5–Trimethylbenzene	9.3

SB06–50–0999	
Acetone	62
Trichloroethene	17
Tetrachlorethene	260
Naphthalene	100
n–Butylbenzene	82
1,2,4–Trimethylbenzene	19
1,2,4–Trimethylbenzene	6.6
1,2,4–Trimethylbenzene	190
1,2,5–Trimethylbenzene	24

PLANT NO. 3

CONCRETE PAD

TREATMENT BUILDING

BLDG.

CONCRETE

BLACKTOP

GRAVEL

SG 121 AREA

SG 110 AREA

SG 5 AREA

SS 1 AREA

SEE MAP NOTE NO. 1

BENCH MARK
X-CUT ENTRANCE TO BUILDING NO. 132
ELEV=124.82

BENCH MARK
X-CUT NW CORNER CONC VALVE PIT
ELEV=132.18

BENCH MARK
X-CUT TOP OF CONC PAD
ELEV=131.98

Yellow Capped Iron Rod
N 214662.078
E 1124773.500
NOT FOUND

Red Capped Iron Rod
N 214473.394
E 1124538.622
NOT FOUND

RED CAPPED IRON ROD N 214087.304 NOT FOUND

4" IRON METAL GUIDE RAIL

N 213900 E 1124700
N 214050 E 1124700
N 214200 E 1124550
N 214350 E 1124550
N 214500 E 1124550
N 214650 E 1124550
E 1124700
N 214650
N 213900 E 1124850
N 214650 E 1124850
N 213900 E 1125000
N 214050 E 1125000
N 214200 E 1125000
N 214350 E 1125000
N 214500 E 1125000
N 214650 E 1125000

SVPM1S GPBL10 SVPM1SN EW4 MW3 IW5 EW8 EW3 GPBL7 SVPM14 SVPM14N EW11 SVPM13 SVPM13S GPBL2 SB07 SB06 SB04 SB03 SB01 SB02 IW11 SB10 SB08 EW13 GPBL9 IW4 EW7 SB23 SB11 SB17 SB16 SB12 SB22 SB15 SB18 SB13 SB21 SB20 SB19 IW8 EW10 IW10 GPBL3 SB09 GPBL5 IW3 MW2 EW2 IW7 EW6 IW2 SB25 SB24 SB27 SB26 IW6 GPBL6 MW1 IW1 EW1 EW5 EW9 EW12 SVPM10S SVPM10 GPBL1 GPBL4 GPBL8 SVPM12S SVPM12 SVPM11S SVPM11

Map Notes:

1.) Coordinate Datum for this project is based on the New York State Plane Coordinate System, Long Island Zone (3104) established on the North American Datum of 1983 (NAD83) through the use of differential GPS techniques from Nassau County D.P.W. Stations 18E13NAZ, 18E12N and 11E11N. Coordinate Datum was established by C.T. Male Associates in 1995.

2.) Elevation Datum for this project is the National Geodetic Vertical Datum of 1929 (NGVD29). Vertical Control is based at the box-cut entrance to former Building No. 132 (Elev=124.82) the Bench Mark

Map Reference:

1.) "Planimetric Survey – Site Drawing No. 95 – 525" by C.T. Male Associates, P.C. dated Nov. 27, 1995.

LEGEND

- GPBL GEOPROBE BORING LOCATION — SURVEYED BY AMERICAN GEOTECH, 8/25/98
- AI AIR INJECTION WELL — SURVEYED BY AMERICAN GEOTECH, 8/25/98
- EW EXTRACTION WELL — SURVEYED BY AMERICAN GEOTECH, 8/25/98
- SVPM SOIL VAPOR PRESSURE MONITOR — SURVEYED BY AMERICAN GEOTECH, 8/25/98
- MW MONITORING WELL — SURVEYED BY AMERICAN GEOTECH, 8/25/98
- C.T. MALE SURVEY BASELINE
- + ELEVATION POINTS
- SB01 BORINGS FROM GROUND SURFACE

NOTES:

1. All results are expressed in micrograms per liter (ug/kg)
2. U – Compound was analyzed for but not detected. The proceeding number is the pratical quantitation for the compound.
3. J – Compound was detected at levels below the pratical quantitation limit. The level reported is approximate.
4. B – Analyte detected in associated blank as well as the sample. It indicates possible/probable blank contamination.

FOSTER WHEELER ENVIRONMENTAL

REV.	DESCRIPTION	PREP BY	DATE	APPRVD
		DR	01/12/2000	

DRAWN BY: DR CH. SHK. (TECH) DATE: 01/12/2000
SUBMITTED BY: (TECH) (DATE)
WORKSHOP OK: KD: PPC: SUBMITTED BY: DATE:
OFFICER IN CHARGE APPROVED

NAVAL FACILITIES ENGINEERING COMMAND
PHILADELPHIA, PENNSYLVANIA
BETHPAGE, NEW YORK

DEPARTMENT OF THE NAVY
NAVAL BASE
NWDP

NORTHERN DIVISION

FIGURE 3-1
VOLATILE ORGANIC COMPOUNDS IN SOIL
ADDITIONAL SOIL BORING LOCATION MAP
SITE 1 – FORMER DRUM MARSHALLING AREA

SEAL AREA

NORTHERN FOR COMMANDER, NAVFAC — APPROVED — DATE

SAT TO	DATE
CODE I.D. NO.	80091
SCALE : 1"=30'-0"	
SPEC. NO. 04–	
CONSTRN. CONTR. NO. N62472–	
NAVFAC DRAWING NO.	
SHEET	OF
SIZE: D	DIS. SH. NO.

DATE CREATED
LATEST CHANGE
CHANGED BY:

CAD FILENAME: NAV113A.DWG
PLOT SCALE: 1=30
DATE: 01/14/2000
TIME: 8:13 AM

SB10-50-0999	
bis(2-ethylhexyl)phthalate	560

SB10-35-0999	
Phenanthrene	1500
Benzo (a) anthracene	1200
Chrysene	1300
Benzo (b) fluoranthene	1200
Benzo (k) fluoranthene	1300
Benzo (a) pyrene	1000
Fluoranthene	3100
Pyrene	2400

SB10-24-0999	
Fluoranthene	460
Pyrene	390

SB08-50-0999	
Benzidine	840
bis(2-ethylhexyl)phthalate	480

SB17-50-1099	
Benzidine	800

SB06-10-0999	
Benzidine	1100
bis(2-ethylhexyl)phthalate	720

SB24-14-0999	
Phenol	2400

N 214200 E 1124550 · N 214350 E 1124550 · N 214500 E 1124550 · N 214650 E 1124550

SEE MAP NOTE NO. 1

N 213900 E 1124700 · N 214050 E 1124700 · E 1124700 · N 214650

N 213900 E 1124850 · N 214650 E 1124850

N 213900 E 1125000 · N 214050 E 1125000 · N 214200 E 1125000 · N 214350 E 1125000 · N 214500 E 1125000 · N 214650 E 1125000

PLANT NO. 3

CONCRETE PAD · TREATMENT BUILDING · BLDG. · CONCRETE PAD · CONCRETE PAD · BLDG. · GRAVEL · BLACKTOP · CONCRETE

SG 121 AREA · SG 119 AREA · SG 5 AREA · SS 1 AREA

SVPM1S · SVPM1SN · SVPM1N · SVPM2S · SVPM2N · SVPM3S · SVPM3N · SVPM10S · SVPM10 · SVPM11S · SVPM11 · SVPM12S · SVPM12

EW1 · EW2 · EW3 · EW4 · EW5 · EW6 · EW7 · EW8 · EW9 · EW10 · EW11 · EW12 · EW13

IW1 · IW2 · IW3 · IW4 · IW5 · IW6 · IW7 · IW8 · IW9 · IW10 · IW11

MW1 · MW2 · MW3

GPBL1 · GPBL2 · GPBL3 · GPBL4 · GPBL5 · GPBL6 · GPBL7 · GPBL8 · GPBL9 · GPBL10

SB01 · SB02 · SB03 · SB04 · SB05 · SB06 · SB07 · SB08 · SB09 · SB10 · SB11 · SB12 · SB13 · SB14 · SB15 · SB16 · SB17 · SB18 · SB19 · SB20 · SB21 · SB22 · SB23 · SB24 · SB25 · SB26 · SB27

BENCH MARK X-CUT ENTRANCE TO BUILDING NO. 132 ELEV=124.82

BENCH MARK X-CUT NW CORNER CONC VALVE PIT ELEV=132.18

BENCH MARK X-CUT TOP OF CONC PAD ELEV=131.98

Yellow Capped Iron Rod N 214082.078 E 1124772.500 NOT FOUND

Red Capped Iron Rod N 214473.394 E 1124938.522 NOT FOUND

2" IRON METAL GUIDE RAIL · RED CAPPED IRON ROD N 213693.843 E 1124907.304 NOT FOUND

Map Notes:

1.) Coordinate Datum for this project is based on the New York State Plane Coordinate System, Long Island Zone (3104) established on the North American Datum of 1983 (NAD83) through the use of differential GPS techniques from Nassau County D.P.W. Stations 18E13NAZ, 18E12N and 11E11N. Coordinate Datum was established by C.T. Male Associates in 1995.

2.) Elevation Datum for this project is the National Geodetic Vertical Datum of 1929 (NGVD29). Vertical Control is based at the box-cut entrance to former Building No. 132 (Elev=124.82) on the Bench Mark

Map Reference:

1.) "Planimetric Survey – Site Drawing No. 95 – 525" by C.T. Male Associates, P.C. dated Nov. 27, 1995.

LEGEND

GPBL	GEOPROBE BORING LOCATION	SURVEYED BY AMERICAN GEOTECH, 8/25/98
AI	AIR INJECTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
EW	EXTRACTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
SVPM	SOIL VAPOR PRESSURE MONITOR	SURVEYED BY AMERICAN GEOTECH, 8/25/98
MW	MONITORING WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
	C.T. MALE SURVEY BASELINE	
+	ELEVATION POINTS	
SB01	BORINGS FROM GROUND SURFACE	

NOTES:

1. All results are expressed in micrograms per liter (ug/kg)
2. U – Compound was analyzed for but not detected. The proceeding number is the pratical quantitation for the compound.
3. J – Compound was detected at levels below the pratical quantitation limit. The level reported is approximate.
4. B – Analyte detected in associated blank as well as the sample, it indicates possible/probable blank contamination.

CAD FILENAME: NAVY138.DWG · PLOT SCALE: 1=30 · DATE: 01/14/2000 · TIME: 8:16 AM

DATE CREATED
LATEST CHANGE
CHANGED BY:

FOSTER WHEELER ENVIRONMENTAL

REV.	DESCRIPTION	PREP BY	DATE	APPRVD

DSGN: DRC · DR CHK: DRC · SUBMITTED BY: (TITLE) · DATE: 01/17/2000 (DRAFT) · SCHEDULE: · NO: · NO: · DRC: · FTR: · OFFICER IN CHARGE: · DATE · APPROVED

NAVAL FACILITIES ENGINEERING COMMAND
PHILADELPHIA, PA
NORTHERN DIVISION
RETHPAGE, NEW YORK

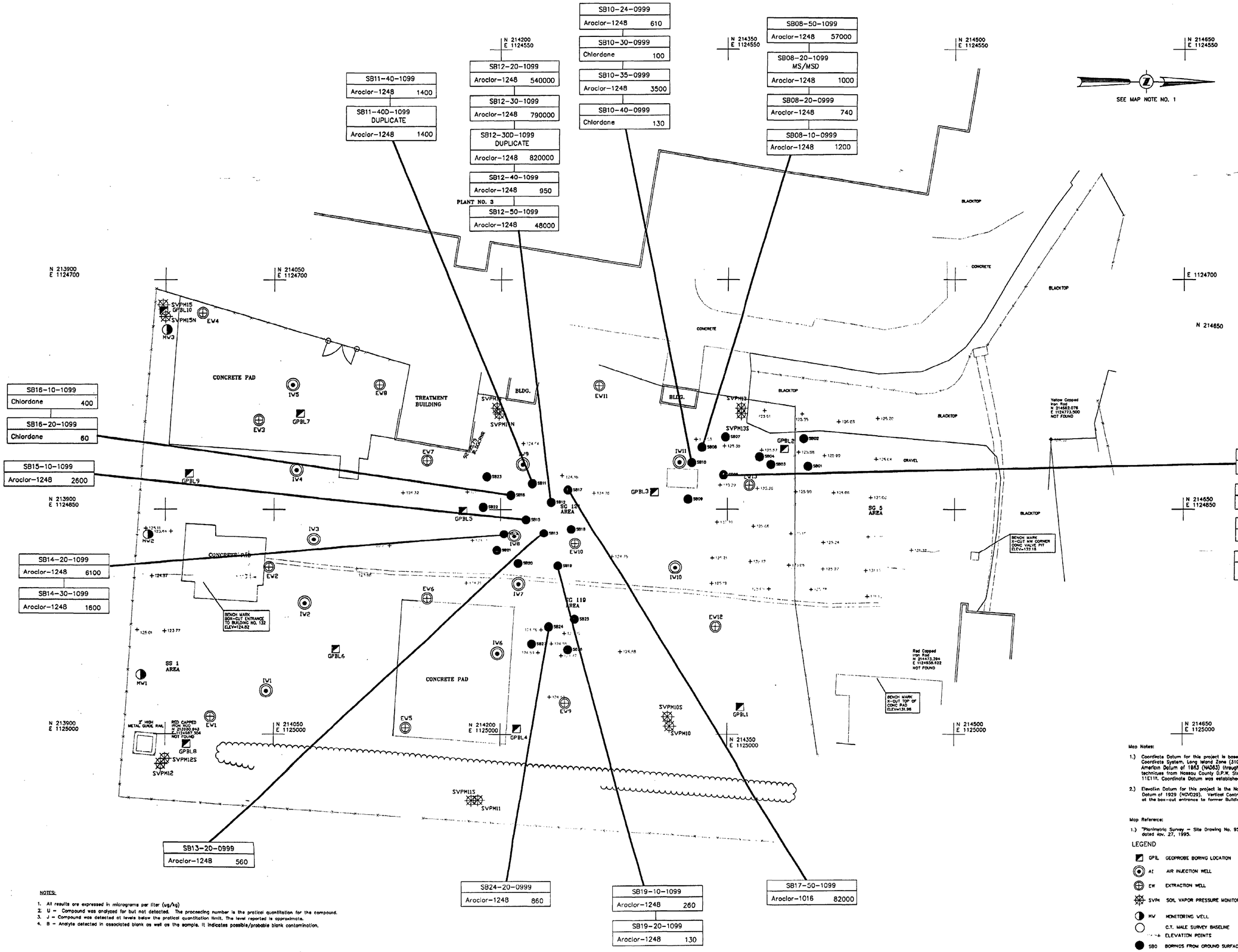
DEPARTMENT OF THE NAVY
NAVAL BASE
NWIRP

FIGURE 3-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
ADDITIONAL SOIL BORING LOCATION MAP
SITE 1 – FORMER DRUM MARSHALLING AREA

SEAL AREA

NORTHDIV FOR COMMANDER, NAVFAC

SAT TO	DATE
CODE I.D. NO.	80091
SCALE : 1"=30'-0"	
SPEC. NO. 04-	
CONSTRN. CONTR. NO. N62472-	
NAVFAC DRAWING NO.	
SHEET	OF
SIZE: D	DG. SH. NO.



NOTES:

1. All results are expressed in micrograms per liter (ug/kg)
2. U – Compound was analyzed for but not detected. The proceeding number is the pratical quantitation for the compound.
3. J – Compound was detected at levels below the pratical quantitation limit. The level reported is approximate.
4. B – Analyte detected in associated blank as well as the sample. It indicates possible/probable blank contamination.

Map Notes:

1.) Coordinate Datum for this project is based on the New York State Plane Coordinate System, Long Island Zone (3104) established on the North American Datum of 1983 (NAD83) through the use of differential GPS techniques from Nassau County D.P.W. Stations 18E13NAZ, 18E12N and 11E11S. Coordinate Datum was established by C.T. Male Associates in 1995.

2.) Elevation Datum for this project is the National Geodetic Vertical Datum of 1929 (NGVD29). Vertical Control is based at the box-cut entrance to former Building No. 132 (Elev=124.82) on the Bench Mark

Map Reference:

1.) "Planimetric Survey – Site Drawing No. 95 – 525" by C.T. Male Associates, P.C. dated Nov. 27, 1995.

LEGEND

GPBL	GEOPROBE BORING LOCATION	SURVEYED BY AMERICAN GEOTECH, 8/25/98
AI	AIR INJECTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
EW	EXTRACTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
SVPM	SOIL VAPOR PRESSURE MONITOR	SURVEYED BY AMERICAN GEOTECH, 8/25/98
MW	MONITORING WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
	C.T. MALE SURVEY BASELINE	
+4	ELEVATION POINTS	
SB0	BORINGS FROM GROUND SURFACE	

FOSTER WHEELER ENVIRONMENTAL

REV.	DESCRIPTION	PREP BY	DATE	APPRVD

DESIGN BY: DR. CHK. | DRAWN BY: [illegible] | DATE: 01/12/2000 DWG | SUBMITTED BY: [illegible] | CHKD | NO. | DR. | MORTHON DM. | FFC. | OFFICER IN CHARGE | DATE | APPROVED

NAVAL FACILITIES ENGINEERING COMMAND PHILADELPHIA, PA BETHPAGE, NEW YORK

DEPARTMENT OF THE NAVY NAVAL BASE NWIRP

NORTHERN DIVISION

FIGURE 3-3
PCB's/ PESTICIDES IN SOIL
ADDITIONAL SOIL BORING LOCATION MAP
SITE 1 – FORMER DRUM MARSHALLING AREA

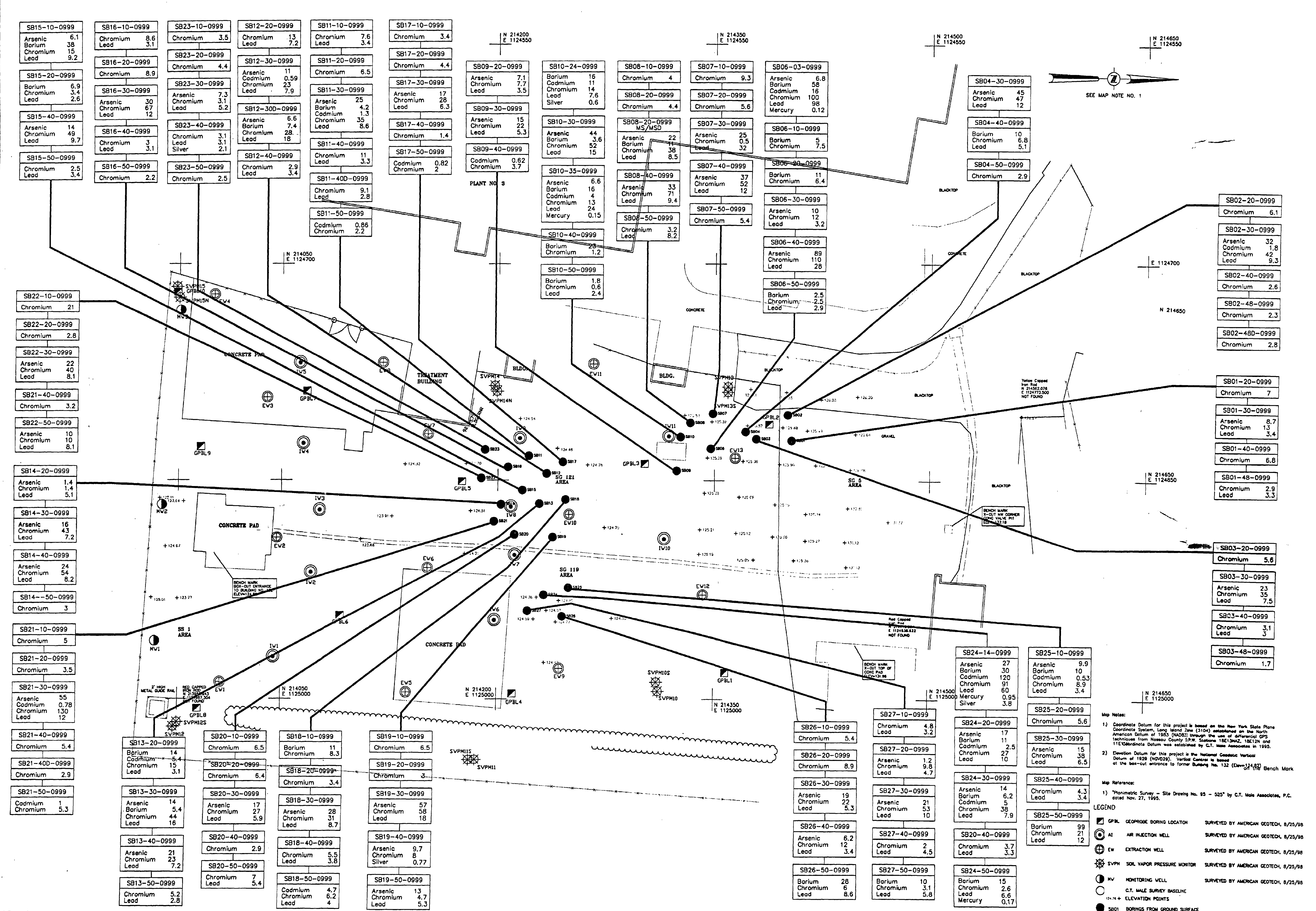
NORTHERN DIV FOR COMMANDER, NAVFAC

SEAL AREA

SAT TO	DATE
CODE I.D. NO.	80091
SCALE : 1"=30'-0"	
SPEC. NO. 04-	
CONSTRN. CONTR. NO.	N62472-
NAVFAC DRAWING NO.	
SHEET	OF
SIZE: D	DIS. SH. NO.

DATE CREATED
LATEST CHANGE
CHANGED BY:

CAD FILENAME: NAVI13C.DWG
PLOT SCALE: 1=30
DATE: 01/14/2000
TIME: 10:09 AM



Map Notes:

1.) Coordinate Datum for this project is based on the New York State Plane Coordinate System, Long Island Zone (3104) established on the North American Datum of 1983 (NAD83) through the use of differential GPS techniques from Nassau County D.P.W. Stations 18E13NAZ, 18E12N and 11E10. Coordinate Datum was established by C.T. Male Associates in 1995.

2) Elevation Datum for this project is the National Geodetic Vertical Datum of 1929 (NGVD29). Vertical Control is based at the box-cut entrance to former Building No. 132 (Elev=124.82) on the Bench Mark

Map Reference:

1) "Planimetric Survey – Site Drawing No. 95 – 525" by C.T. Male Associates, P.C. dated Nov. 27, 1995.

LEGEND

GPBL	GEOPROBE BORING LOCATION	SURVEYED BY AMERICAN GEOTECH, 8/25/98
AI	AIR INJECTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
EW	EXTRACTION WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
SVPM	SOIL VAPOR PRESSURE MONITOR	SURVEYED BY AMERICAN GEOTECH, 8/25/98
MW	MONITORING WELL	SURVEYED BY AMERICAN GEOTECH, 8/25/98
	C.T. MALE SURVEY BASELINE	
124.36 +	ELEVATION POINTS	
SB01	BORINGS FROM GROUND SURFACE	

CAD FILENAME: NAVI120.DWG DATE: 1/17/2000
PLOT SCALE: 1=30 10:40 AM

FOSTER WHEELER ENVIRONMENTAL

REV. | DESCRIPTION | PREP BY | DATE | APPRVD

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
PENNSYLVANIA, PA
NAVAL BASE
NWIRP
BETHPAGE, NEW YORK

FIGURE 3-4
ADDITIONAL SOIL BORING LOCATION MAP
SITE 1 – FORMER DRUM MARSHALLING AREA

NORTHDIV FOR COMMANDER, NAVFAC
APPROVED DATE
SEAL AREA
SAT TO DATE
CODE I.D. NO. 80091
SCALE : 1"=30'-0"
SPEC. NO. 04-
CONSTRN. CONTR. NO. N62472-
NAVFAC DRAWING NO.
SHEET OF
SIZE: D DIS. SH. NO.

DATE CREATED
LATEST CHANGE
CHANGED BY:

APPENDIX A

SOIL BORING LOGS

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 01
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/08/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/10/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: J. Stephens, P. Fox/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobile Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	0	12	10.5"		Refusal at 18"	13:00	09/08/1999	0	
		15		SW	0 - 5.5" Dk bn to blk cf SAND and c GRAVEL, fill?				
	1	22		SW	5.5 - 8.5" Lt bn cf SAND, trace c Gravels, loose				
		-		SP	8.5 - 10.5" Dk bn mc SAND, trace cobbles, dry				
2 - 4'	2								
	3								
4 - 6'	4	4	5.5"	SP	0 - 2.5" Tan to Dk bn mf SAND, little c Gravel, loose, moist			0	
		4		ML-CL	2.5 - 5.5 Tan to Orange bn SILT and CLAY, some c				
	5	4			Gravel and Cobble frag, semi loose				
		7							
6 - 8'	6	9			Refusal at 7.5"				
		9		SM	0 - 3.5" Lt bn to dk bn mf SAND, some Silt, trace Gravels				
	7	17			trace Gravel and Cobble, loose				
		-		SW	3.5 - 11.5" Orange bn to tan cf SAND, trace Gravels				
8 - 10'	8	6	12"	SP	Orange bn mc SAND, little mf Gravels, trace c Gravels	15:10	09/08/99	0	
		28			very loose, dry				
	9	24							
		34							
10 - 12'	10	7	11.5"		Same as 8 - 10" interval except some	8:12	09/09/99	0	
		16			Cobbles, mostly fractured, v loose				
	11	28							
		22							
12 - 14'	12	9	12"	SP	0-2.5" Orange bn mc SAND, some Gravel,	8:38	09/09/99	60	
		15			v. loose, dry				
	13	20		SW	2.5-9.5" Tan fc SAND, trace f Gravel				
		16		SW	9.5-12" Tan fc SAND, some c Gravels sub				
					rounded to rounded, dry, v loose				
14 - 16'	14	9	12"	SW	Orange bn cf SAND, little c Gravel,	9:08	09/09/99	40	
		20			trace cobble (subrounded to rounded)				
	15	20			grading to tan mc SAND, trace Gravel, v. loose				
		21							
16 - 18'	16	20	10"	SW	0 - 2.5" Orange bn cf SAND, trace Gravels and Cobbles	9:35	09/09/99	58	
		14			loose, dry				
	17	18		SW	2.5 - 7" Tan c gravelly SAND AND little COBBLE				
		31			loose, dry				
				SW	7 - 10" Tan cf SAND, trace Silt and cf Gravels				
					very loose,				
18 - 20"	18	6	11.25"	SP	Orange bn mc SAND, little f Gravel, trace c Gravel	10:01	09/09/99	200	
		15			grading to mc tan SAND, little c Gravel, loose dry				
	19	20							
		25							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 01
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/08/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/10/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: J. Stephens, P. Fox/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobiol Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20 21	6 15 22 25		SP	Orange bn mc SAND, some c Gravels, trace f Gravels, semi loose, dry	10:28	09/09/99	190	collect sample: SB01-20-0999
22 - 24'	22 23	24 22 29 21		SW	Orange bn fc SAND, some fc gravels, semi loose, dry	10:51	09/09/99	220	
24 - 26'	24 25	7 14 21 27		SW	Yellowish tan grading to orange bn cf SAND, trace mf Gravels (sub to rounded), semi loose, dry	11:28	09/09/99		
26 - 28'	26 27	13 17 23 21	13.5"	SW	Tan cf SAND, trace silt, semi loose, dry	11:53	09/09/99		
28 - 30'	28 29	10 21 22 24	13.5"	SP	Tan mc SAND grading to cf sand trace mf gravel, semi dense, dry	12:51	09/09/99		collect sample: SB01-30-0999
30 - 32"	30 31	5 20 19 21	12"	SW	Orange brown cf SAND grading to tan mc SAND trace Gravel and Silt, loose, dry	13:04	09/09/99	70	
32 - 34"	32 33	16 27 26 29	14"		Tan mc SAND, trace Silt and Gravels, semi dense, dry	13:24	09/09/99		
34 -36'	34 35	5 18 24 27	8"		Orange bn cf SAND, trace c Gravels grading to bn mf SAND, trace Silt, loose, moist	13:40	09/09/99		
36 - 38'	36 37	17 30 45 47	17"		Red bn cf SAND, trace c Gravels grading to tan mc SANDS, loose, dry	14:25	09/09/99		
38 - 40'	38 39 40	18 34 75 88	11"		Orange bn mc SAND, trace f Sand grading to tan c SAND, trace f Gravel, semi dense, dry	14:50	09/09/99		collect sample: (voc) SB01-40-0999

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
PROJECT NO: 1284.B004.0205.00000
LOCATION: Bethpage, New York
GEOLOGIST: Andrew Prophete
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobil Drill Rig with 140 lb hammer

BORING NUMBER: SB - 01
DATE STARTED: 09/08/1999
DATE COMPLETED: 09/10/1999
GROUNDWATER DEPTH:
GROUND SURFACE ELEVATION:

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	21	13"	SP	0 - 11" Tan c SAND, v. dense, moist	7:57	09/10/99	22	collect sample:
		59			11 - 12" Dk bn c SAND, v. dense, moist				(svoc/pcb/pest/
	41	106			12 - 13" Same as 0-11"				metals)
		112							SB01-40-0999
42 - 44'	42	30	17"	SW	0 - 6" Tan to orange bn c SAND, trace f Sand	8:48	09/10/99	1350	Raining hard
		84			and Gravels, v. dense, moist				
	43	190		CL	6 - 7.5" Lt gray CLAY, trace f Sand, v. dense				
		-			high plasticity				
				SW	7.5 - 17" Tan cf SAND, very dense, dry				
44 - 46'	44	21	13"	SW	Tan gravelly SAND, mod dense to dense,	9:37	09/10/99	1300	Raining hard
		75			grading to orange bn cf SAND, trace Gravel, moist				
	45	41							
		29							
46 - 48'	46	10	16"		0 - 2" Orange bn cf SAND, trace Gravels, moist	10:13	09/10/99	1200	Raining hard
		34			2 - 16" Tan cf SAND, trace Silt, moist				
	47	-							
		-							
48 - 50'	48	21	18"	CL-ML	0 - 2.75" Lt gray CLAY and SILT, very dense, med.	10:56	09/10/99	100	collect sample:
		40			plasticity,				SB01-48-0999
	49	39		SP	2.75 - 18" Tan to orange bn mf SAND, trace f				
		36			Gravels and Silt, dense, dry				
50 - 52'	50	6	15"	SP	0 - 1.5" Same as above	11:36	09/10/99		
		18		CL-ML	1.5 - 3.5" Light gray CLAY and SILT, v dense				
	51	49		SP	3.5-13" Orange bn mf SAND, trace Silt, trace				
		32			micas (black and white), semi dense				
				SP	13 - 15" Tan c SAND, semi dense, moist				
52 - 54'	52	21	15"	SP	0 - 6" Yellowish bn mf SAND, trace Silt and micas	12:03	09/10/99		
		58		SP	6 - 15" Tan c SAND, trace f Sand, semi dense, moist				
	53	56							
		58							
54 - 56'	54	20	17"	ML-CL	0 - 1.5" Gray to lt bn SILT and CLAY, semi dense	13:40	09/10/99		
		33			wet				
	55	51		SW	1.5 - 9" Lt bn cf SAND, trace Silt and c Gravel				
		45		SP	grading to orange bn mc SAND AND mc GRAVEL,				
					dense, wet				
				SP	9 - 17" Tan mc SAND grading to lt gray c SAND,				
					trace Silt, semi dense, wet				

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 02
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/13/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/14/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: J. Stephens, K. Cronin/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobile Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3								
4 - 6'	4 5	3 4 8 15	10.5"	ML SW	0 - 6" Lt gray clayey SILT, trace f Gravels, cobble frags semi dense 6 - 10.5" Bn to orange bn mf SAND, trace c Sand and m Gravel, loose, dry	8:23	09/13/99	0	
6 - 8'	6 7	4 10 31 47	22"	SP-SM SM SP	0 - 3.5" Lt brown to tan f SAND, trace clayey Silt and cf Gravels 3.5 - 13.5" Lt gray f SAND and SILT, some cf Gravels 13.5 - 22" Orange bn c SAND, little Gravel, trace cobble frag, semi dense, dry	8:33	09/13/99	0	
8 - 10'	8 9	11 43 41 34	12"	ML	0 - 3.5" Lt gray clayey SILT, some f Sand, moist 3.5 - 12" Orange bn mc SAND, some quartzite frag (cobble), trace c Gravel, semi loose, dry	8:53	09/13/99	0	
10 - 12'	10 11	13 30 27 29	11"	SW	Orange bn cf SAND, some cf Gravels, semi loose ,dry	9:08	09/13/99		
12 - 14'	12 13	7 20 18 12	16"	SP	Orange bn mc SAND, little cf Gravels,loose, dry trace cobble frag, angular to sub rounded	9:24	09/13/99	0	
14 - 16'	14 15	12 12 12 12			Same as above	9:33	09/13/99		
16 - 18'	16 17	2 6 16 15	10.5"	SP	Orange bn mc SAND, some c Gravels, trace cobble frag and silt, very loose, moist	9:48	09/13/99		
18 - 20"	18 19	7 12 15 19	15.5"	SW	Orange bn cf SAND, little cf Gravel, sub angular to rounded loose, dry	10:00	09/13/99		

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 02
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/13/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/14/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: J. Stephens, P. Fox/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobil Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	5	13"	SW	Orange bn mc SAND, little cf Gravel, trace black f Sand	10:20	09/13/99		
		12			and cobble frag, fractured, angular				
	21	21			all loose, dry				
		26							
22 - 24'	22	7	12"	SW	Orange bn grading to tan cf SAND, little cf Gravel	10:31	09/13/99		
		20			trace f black sand, loose, dry				
	23	21							
		23							
24 - 26'	24	6	15.5"	SW	Orange bn mc SAND, little f gravels, trace c gravels,	10:52	09/13/99		
		11			loose, dry				
	25	24							
		21							
26 - 28'	26	3	10.5"	SP	Tan c SAND, little c Gravel, trace black f Sand and Silt,	11:20	09/13/99		
		4			v loose, dry,				
	27	12							
		14							
28 - 30'	28	4	12.5"	SP	Tan c SAND, trace f sand, loose, dry grading to tan	11:38	09/13/99		
		14		SW	bn cf SAND, little cf Gravel, semi loose, dry				
	29	21							
		27							
30 - 32"	30	3	12.5"	SW	Tan cf SAND, dry	12:50	09/13/99		
		13		ML	Between 10 and 11" lense of orange brown				
	31	18			clayey silt, trace micas. Slight plasticity				
		27							
32 - 34"	32	8	13"		Orange bn cf SAND, trace c Gravel, dry	13:09	09/13/99		
		20							
	33	30							
		42							
34 -36'	34	11	17"	SW	0 - 3" Orange bn cf SAND, trace c Gravel, dry	13:30	09/13/99		
		35		SP	3 - 17" Tan c SAND, trace f Sand and f Gravels, dense, dry				
	35	49							
		68							
36 - 38'	36	18	16.25"	SW	Lt bn cf SAND, some cf Gravel, semi dense	14:20	09/13/99		
		54			grading to tan mc SAND, v. dense, dry				
	37	72							
		96							
38 - 40'	38	24	19"		Tan mc SAND, trace Silt grading to lt bn cf SAND	14:43	09/13/99		
		55			v dense, dry				
	39	92							
		103							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 02
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/13/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/14/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: J. Stephens, P. Fox/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobil Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	21	18"	SP	Orange bn mc SAND, trace f Sand, dense	15:33	09/13/99		
		51			dry				
	41	81							
		109							
42 - 44'	42	18	18.75"	SP	0 - 12" Lt bn mc SAND, trace f Gravel, dense, dry	7:33	09/14/99		
		91		SW	12 - 18.75" Tan mf SAND, little c Sand, trace clayey SILT,				
	43	145			v dense, dry				
		156							
44 - 46'	44	31	17.25"	SW	0 - 4" Orange bn cf SAND, trace f Gravel, dense, dry	8:00	09/14/99		
		74		SP	4 - 17.25" Tan mf SAND, trace gray sandy CLAY,				
	45	82			dense, dry				
		93							
46 - 48'	46	10	19.5"	SM-ML	0 - 5" Orange bn mf SAND, little gray Silt and Clay	8:32	09/14/99		
		18		CL-SM	5 - 13" Gray CLAY and SILT, some lt bn c Sand,				
	47	37			v dense, dry				
		45		SC	13 - 19.5" Tan cf SAND, little gray Clay				
					grading to lt bn mc Sand, dense, dry				
48 - 50'	48	13	15"	SM-ML	Tan mf SAND, little clayey Silt, loose to semi	9:13	09/14/99		
		38			dense, moist grading to tan cf SAND, trace gray clay				
	49	48			dry, dense				
		44							
50 - 52'	50	17	13"	SM-SC	0 - 6.5" Tan cf SAND and gray Clay & Silt,	9:28	09/14/99		
		39			moist				
	51	23		SM-SC	6.5 - 11.5" Tan mf SAND, little Silt and Clay				
		26		CL-ML	11.5 - 11.75" Gray CLAY AND SILT lense, semi dense				
				SW	11.75 - 13" Tan cf SAND, well sorted, moist, semi loose				
52 - 54'	52	14	17"	SM-SC	0 - 3.5" Tan mf SAND and CLAY AND SILT,	9:56	09/14/99		
		30			moist				
	53	24		SW	3.5 - 17" Tan cf SAND, trace gray Clay,				
		26			moist, dense				
54 - 56'	54	14	21"		0 - 8.5" Tan cf SAND, some clayey Silt, semi	10:18	09/14/99		
		21			dense, moist, grading to vc SAND, trace mf Sand and f				
	55	21			Gravels, trace clayey Silt, dense				
		26			8.5 - 21" Lt gray clayey SILT, some cf Sands,				
					semi dense, moist				
56 - 58'	56	8	15.5"	SM-SC	Tan mf SAND and Clay and Silt, trace c sand,	10:50	09/14/99		
		24		SP	grading to orange bn vc Sand, trace f Gravels, v dense				
	57	48			all saturated				
		59							

NOTES:

PAGE 3 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 03
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/15/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/20/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: J. Stephens, P. Fox/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobil Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	0								
0 - 2'	1								
2 - 4'	2								
	3								
4 - 6'	4	7	15"	SP	0 - 5" Orange bn mf SAND, little mf Gravel, trace c Gravel, loose, moist	13:03	09/15/99		
	5	6 10		ML	5 - 11" Lt gray clayey SILT, trace cf Gravel				
		35		SP	11 - 15" Tan c SAND, some cf Gravels, little mf Sand, loose				
6 - 8'	6	18	8.5"	SP	Orange lt bn c SAND, trace f Sand, some cf Gravel and cobble frag, loose, dry	13:21	09/15/99		
	7	51 42/2"							
8 - 10'	8	12	13.5"	SW	Orange bn cf SAND, some cf Gravel, dry	13:38	09/15/99		
	9	30 30 28							
10 - 12'	10	8	11"	SW	Same as above grading to tan cf SAND, trace Silt and and cobble frag, loose, dry	13:50	09/15/99		
	11	30 31 26							
12 - 14'	12	12	13"	SW	Same as above	14:00	09/15/99		
	13	13 18 22							
14 - 16'	14	10	9.5"	SW	Same as above	14:13	09/15/99		
	15	27 24 18							
16 - 18'	16	11	12"	SW	Orange bn cf SAND, some cf Gravel, grading to tan c SAND, some mf Sand, some cf Gravel, trace silt, loose, dry	14:34	09/15/99		
	17	21 24 28							
18 - 20"	18	15	12.5"	SW	Yellowish bn cf SAND, some cf Gravel, trace cobble frag	15:04	09/15/99		
	19	50 49 28							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 03
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/15/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/20/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: J. Stephens, P. Fox/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobil Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	4	13"	SW	Yellowish bn cf SAND, some cf Gravel, trace cobble frag-	15:15	09/15/99		collect sample:
		33			quartzite				SB03-20-0999
	21	34							
		31							
22 - 24'	22	7	No		Broken c Gravel and Cobble in spoon tip	9:39	09/20/99	0	replace Mobil Rig
		9	Rec						with Failing F7
	23	20							Drill Rig
		30							
24 - 26'	24	100/4"			Refusal.	9:55	09/20/99	0	
					Pushing cobble				
	25								
26 - 28'	26	8	11.5"	SW	0 - 3" Orange lt bn cf SAND, trace mf Gravel, loose, moist,	10:12	09/20/99		
		10		SW	3 - 11.5" Tan mf SAND, little c Sand, trace cf Gravel, loose				
	27	10			dry				
		10							
28 - 30'	28	6	11"	SW	0 - 2.75" Tan mf Sand, trace c Sand, v. loose, dry	10:27	09/20/99	0	
		4		SW	2.75 - 6" Orange lt bn vc-c SAND, little mf Sand, trace				
	29	6			f Gravel, v. loose, dry				
		13		SP	6 - 11" Tan m SAND, trace f Sand and f Gravel, loose, dry				
30 - 32"	30	8	13"	SP	0 - 6.5" Yellowish bn mc SAND, trace f Sand	10:45	09/20/99	0	collect sample:
		10		SW	6.5 - 13" Tan cf SAND, trace Silt, semi loose, dry				SB03-30-0999
	31	13							
		20							
32 - 34"	32	13	13.75"	SM	Tan mc SAND, little f Sand and Silt, trace f Gravel, dense, dry	11:10	09/20/99	0	
		26		GM					
	33	40							
		55							
34 -36'	34	10	11.5"	SW	Tan cf SAND, trace mf Gravel and Silt, dry	11:27	09/20/99		
		21		GM					
	35	26							
		30							
36 - 38'	36	9	10.75"	SM	Tan f SAND, little Silt, trace m Sand, dry	12:54	09/20/99	0	
		19							
	37	26							
		28							
38 - 40'	38	10	12"	SM	Yellowish bn mf Sand, some Silt, trace c Sand, dry	13:08	09/20/99	0	
		12							
	39	19							
		23							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 03
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/15/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/20/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: J. Stephens, P. Fox/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Mobil Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
40 - 42'	40	9	5.5"	SP	Tan C SAND and cobble frag (gneissic banding), trace	13:20	09/20/99	0	collect sample: SB03-40-0999
		18		SC	sandy Clay lense(1.5") thick, loose, dry				
	41	23							
		26							
42 - 44'	42	6	11.5"	SM-CL	Tan c SAND, some silty Clay, loose, moist	13:30	09/20/99	0	
		12							
	43	14							
		22							
44 - 46'	44	9	9.5"	SM-CL	Tan c SAND, some silty CLAY, trace cobble frag, dense, dry	13:55	09/20/99		
		16							
	45	18							
		25							
46 - 48'	46	7	13"	SM-SC	Tan c SAND, little Silt and Clay, loose, dry	14:00	09/20/99		
		12							
	47	13							
		21							
48 - 50'	48	4	15"	SW	Tan cf SAND, trace clay	14:25	09/20/99	0	collect sample: SB03-48-0999
		11							
	49	19							
		21							
50 - 52'	50	17	14.5"	SM-ML	Lt bn to orange lt bn mc SAND, some clayey Silt, dense, wet	15:00	09/20/99	0	
		39							
	51	23							
		26							
52 - 54'	52		22"	ML-SM	0 - 10" Lt gray clayey SILT, some f Sand, wet	15:15	09/20/99	0	
				SP	10 - 13.5" Orange bn c SAND, little m Sand, wet				
	53			SP	13.5 - 22" Tan c SAND, little mf Sand, wet				
	54								
	55								
	56								
	57								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 04

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 09/22/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 09/22/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

F7 Failing Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	0								
0 - 2'	1								
2 - 4'	2								
	3								
4 - 6'	4								
	5								
6 - 8'	6								
	7								
8 - 10'	8								
	9								
10 - 12'	10								
	11								
12 - 14'	12								
	13								
14 - 16'	14								
	15								
16 - 18'	16								
	17								
18 - 20"	18								
	19								
	20								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 04
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 09/22/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 09/22/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Rig with 140 lb Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20 21								
22 - 24'	22 23								
24 - 26'	24 25								
26 - 28'	26 27								
28 - 30'	28 29								
30 - 32"	30 31	8 18 27 30	13.5"	SW GW	Orange bn cf SAND, some mf Gravels, trace Cobble frag grading to mf SAND, little mf Gravel, dense, dry	9:15	09/22/1999	0	collect sample: SB04-30-0999
32 - 34"	32 33	8 16 27 38	13"		Orange bn cf SAND, little Silt, trace mf Gravels, dense dry	9:30	09/22/1999		
34 -36'	34 35	29 34 43 50	17.25"	SP	Orange lt bn c SAND, little mf Sand grading to tan cf SAND, some mf Gravel (red to blk) dense, dry.	9:50	09/22/1999		
36 - 38'	36 37	17 41 35 33	16"	SW	Tan to lt bn cf SAND, little Silt and cf Gravel, dense, dry	9:50	09/22/1999		
38 - 40'	38 39 40	18 17 17 23	17.25"	SM	White to tan mf SAND and SILT, trace . Clay, semi dense dry	10:20	09/22/1999	0	collect sample: SB04-40-0999

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 04
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 09/22/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 09/22/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	12	18.5"		Same as above except yellowish bn alternating sand layers	10:48	09/22/1999		
		15							
	41	19							
		24							
42 - 44'	42	8	12.5"	SW	Tan to yellowish orange cf SAND, little Silt, trace Clay , dry	11:02	09/22/1999		
		25							
	43	30							
		41							
44 - 46'	44	12	14.5"	SP	Tan to lt gray c SAND, little mf Sand, trace Silt and Clay, dense, moist	11:16	09/22/1999		
		20							
	45	27							
		38							
46 - 48'	46	9	13"	SC	White cf SAND grading to orange lt bn SAND and CLAY, med stiff, dry	11:24	09/22/1999		
		18							
	47	23							
		24							
48 - 50'	48	9	15.5"	SM SP	Tan cf SAND, trace Clay and Silt grading to white c SAND, semi dense, dry	11:40	09/22/1999		
		14							
	49	16							
		24							
50 - 52'	50	12	13	SW	Tan to white cf SANDS, loose, dry	11:50	09/22/1999	0	collect sample: SB04-50-0999
		12							
	51	12							
		14							
52 - 54'	52	3	11"	SP	Tan to orange bn mc SAND, trace f Sand, v. loose	12:54	09/22/1999		
		4							
	53	3							
		3							
54 - 56'	54	2	8"		Lt bn to orange bn mc SAND, trace f Sand, v. loose, dense	13:04	09/22/1999		
		3							
	55	3							
		4							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 06
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/24/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/24/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3				Dk bn to black cf SAND and SILT, some cf Gravels, trace Clay, fill?			37	strong odor collect sample: SB06-03-0999
4 - 6'	4 5								
6 - 8'	6 7								
8 - 10'	8 9	12 17 17 15	12"	SW	Orange lt bn cf SAND, some mf Gravel, dry, v. loose	8:52	09/24/1999	89	strong mold-like odor
10 - 12'	10 11	4 9 9 15	12"	SW	Orange lt bn grading to tan cf SAND, some mf Gravel, trace clayey Silt, loose, dry.	9:00	09/24/1999	46.3	collect sample: SB06-10-0999
12 - 14'	12 13	7 9 10 14	12:00	SM GW	Yellowish orange to tan cf SAND and SILT, some mf Gravel, trace c Gravel and Silt loose, dry.	9:12	09/24/1999	84.8	
14 - 16'	14 15	10 13 12 12	No Rec		Cobble frag in spoon tip	9:14	09/24/1999		
16 - 18'	16 17	4 9 13 15	11"	SW	Yellowish orange to tan cf SAND, little cf Gravel, trace Cobble frag, broken and angular, loose dry.	9:20	09/24/1999	29.1	
18 - 20"	18 19 20	11 14 15 18	14"	SP	Same as above except trace black staining on sand grains, streak on glove	9:35	09/24/1999	32.1	moderate odor

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 06
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 09/24/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 09/24/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Rig with 140 lb Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	11	9"	SW	0 - 3.25" Tan cf SAND, little Silt, trace mf Gravel, loose, dry	9:42	09/24/1999	31.5	collect sample: SB06-20-0999
		20							
	21	15		SP	3.25 - 9" Tan to yellowish orange mf Sand, trace mf Gravels, dry				
		16							
22 - 24'	22	11	12"	SW	Tan to lt bn vc-f SAND, some fc Gravels, trace Silt, loose, dry	10:01	09/24/1999	7.2	
		11							
	23	19							
		12							
24 - 26'	24	6	11"	SP	Tan cf SAND, some mf Gravel grading to mc Sand, trace m Gravel, v. loose, dry	10:12	09/24/1999	16	
		10							
	25	8							
		6							
26 - 28'	26	3	10"	SP	Tan c SAND, some mf Sand, trace mica, loose, dry	10:30	09/24/1999	11.2	
		8							
	27	11							
		17							
28 - 30'	28	6	14"	SW	Mixed lt bn and tan mc SAND,	10:47	09/24/1999	3.8	
		6		SM	little f Sand and Silt, trace mf Gravel, loose				
	29	10							
		19							
30 - 32"	30	7	14"	SW	0 - 7" Red bn cf SAND, trace mf Gravel	10:52	09/24/1999		collect sample: SB06-30-0999
		7			7 - 14" tan to orange lt bn cf SAND, little				
	31	15			Silt, trace mf Gravel, dry loose				
		8							
32 - 34"	32	15	13.75"	SP	Tan to orange lt bn c SAND, some mf Sand trace Silt and Gravels, dry, semi loose	10:58	09/24/1999	0	
		19							
	33	21							
		23							
34 -36'	34	9	15"		Tan vc-f SAND, some mf Gravels grading to Tan cf SAND, trace f Gravels, semi	11:07	09/24/1999	0	
		16							
	35	24			semi dense, dry.				
		25							
36 - 38'	36	10	15"	SW	Orange lt bn mc SAND, mf Gravel grading	11:20	09/24/1999		
		25		GM	to tan cf SAND, little mf Gravel and Silt,				
	37	32			dense, dry				
		40							
38 - 40'	38	15	7.5"		Red lt bn f SAND, some m Sand and Silt,	11:30	09/24/1999	10	collect sample: SB06-40-0999
		20			little mf Gravel, dense dry. Possible				
	39	31			iron concretions throughout				
		30							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 06
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 09/24/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 09/24/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	15	15"	SW	0 - 9" Lt bn vc-f SAND and f GRAVELS,	11:50	09/24/1999	0.8	
		11		SM	little Silt grading to SAND and SILT, little				
	41	21			mc Sand trace micas, semi dense				
		23			9 - 15" Tan mf SAND and SILT, little Clay				
42 - 44'	42	7	15.5"		Tan cf SAND, trace micas, semi dense	12:40	09/24/1999	0	
		12			dry				
	43	23							
		20							
44 - 46'	44	10	13"	SW	Tan cf SAND, trace micas. At 11.5 - 13"	12:58	09/24/1999	0	
		13		CL	Gray CLAY AND SILT lense, soft				
	45	13			dry				
		18							
46 - 48'	46	8	16"	SP	Tan and Orange bn laminations of	13:21	09/24/1999		
		10		CL	cm SAND and Gray SILT and CLAY,				
	47	13			loose, dry				
		25							
48 - 50'	48	12	14.5"	SW	0 - 9" Lt bn to tan cf SAND, trace Silt	13:38	09/24/1999	74.6	
		20		CL	9 - 10.75" SILT and CLAY				
	49	29		SW	10.75 - 14" same as 0 - 9"				
		40		CL	14 - 14.5" SILT and CLAY				
				SP	14.5 - 22.5" Tan c SAND, dry				
50 - 52'	50	10	14"	SP	Tan c SAND, some mf Sand grading	13:49	09/24/1999	286	collect sample:
		23			to cf SAND, little Silt, trace Clay, moist in				**SB06-50-0999**
	51	20			sands.				
		24							
52 - 54'	52	11	20"	CL	0- 4.5" Lt gray SILT and CLAY	14:12	09/24/1999	21.9	
		17		SP	4.5 - 20" Orange bn to tan mf SAND,				
	53	23			little c SAND and Silt, semi dense,				
		30			moist				
54 - 56'	54	15	22"	CL	0 - 6.5" Lt gray Silt and Clay, semi dense	14:07	10/13/1999	8.9	
		21		SM	6.5 - 14" Orange bn cf SAND and SILT, wet				
	55	30		CL	14 - 17" Lt gray SILT and CLAY, stiff				
		25			17 - 22" Lt gray cf SAND, wet				

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 07
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/23/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/23/1999
GEOLOGIST: Morgan Evans
GROUNDWATER DEPTH:
DRILLER: C. Strobel,P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Falling Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1						09/23/1999		
2 - 4'	2 3						09/23/1999		
4 - 6'	4 5						09/23/1999		
6 - 8'	6 7						09/23/1999		
8 - 10'	8 9	15 15 28 30	22"		Pale bn c sand and f gravel, some f sand, trace mc gravel and cobble frag, dense, dry	9:05	09/23/1999		collect sample: SB07-10-0999
10 - 12'	10 11	12 12 19 13	18"		Same as above except semi dense	9:25	09/23/1999		
12 - 14'	12 13	13 12 13 12	15"		Same as above	9:45	09/23/1999		
14 - 16'	14 15	13 17 9 11	11"		Pale bn cf sand, little f gravel grading to tan and white cf sand and f gravel, trace m gravel, subangular to angular, loose to semiloose, dry	10:05	09/23/1999		
16 - 18'	16 17	10 10 11 12	14"		Pale bn cf sand and f gravel, little m gravel, trace c gravel, and silt, loose, dry	10:20	09/23/1999		
18 - 20"	18 19 20	11 14 11 12	14"		Same as above, moist at top to dry at bottom	10:32	09/23/1999		collect sample: SB07-20-0999

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 07
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/23/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/23/1999
GEOLOGIST: Morgan Evans
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Rig with 140 lb Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	15	7"		Tan vc-c SAND, trace f Sand, some	10:42	09/23/1999		
		13			mf Gravel, trace c Gravel, loose, dry				
	21	10							
		13							
22 - 24'	22	10	12"		Lt bn to Tan vc-c SAND, little m Sand	10:55	09/23/1999		
		9			and mf Gravel, trace c Gravel and Cobble				
	23	10			frag, semi loose, dry				
		13							
24 - 26'	24	8	14"		Tan cf SAND, little mf Gravel, trace c Gravel	11:07	09/23/1999		
		7			loose, dry				
	25	8							
		10							
26 - 28'	26	8	15"		Tan cf SAND, trace mf Gravel, loose, dry,	11:20	09/23/1999		
		7							
	27	7							
		8							
28 - 30'	28	5	17"		Same as above	11:30	09/23/1999		collect sample:
		6							SB07-30-0999
	29	7							
		11							
30 - 32"	30	8	16"	SW	Lt bn cf SAND, little mf Gravel grading to	11:42	09/23/1999	0	collect sample:
		12		GW	tan c SAND and f Gravel, little				SB07-30-0999
	31	14			trace silt, semi loose, dry				
		16							
32 - 34"	32	8	17"		0 - 12" Orange bn cf SAND, little f Gravel	11:51	09/23/1999		
		14			grading to lt bn cf Sand and Silt, trace				
	33	28			f Gravel, all moist,				
					12 - 14" Lt gray clayey SILT, dry and				
	34	20			crumbly, odor throughout				
34 -36'		8	17"	SP	0 -4" Lt gray CLAY AND SILT, v dense, wet	12:00	09/23/1999		
	35	20			4 - 11.5" Tan cf Sand, little Silt grading to				
		30			Orange bn mf SAND, some Silt, little c				
					Sand, trace f Gravel, v dense, dry				
	36				11.5-13.5" Tan f SAND AND SILT,				
					13.5-19.5" Orange lt bn mf SAND,				
		33			some Silt, little c Sand, dense, dry				
36 - 38'		17	19"	SW	0 -3.5" Lt gray to lt bn CLAY AND SILT,	12:10	09/23/1999		
	37	23			med stiff.				
		39			3.5 - 18.5" Tan mf SAND, some Silt				
	38	36			little c Sand, loose dry.				
38 - 40'		23	21"	SM	Tan and white layers of c SAND, little m	12:20	09/23/1999	0	collect sample:
	39	16			Sand, trace f Gravel, v dense, dry				SB07-40-0999
		18							
	40	25							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 07
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/23/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/23/1999
GEOLOGIST: Morgan Evans
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	12	15"		Tan mf SAND, some c Sand, little Silt,	13:15:0	09/23/1999		
		20			grading to pinkish tan c SAND,				
	41	17			little mf Sand, loose, dry				
		17							
42 - 44'	42	12	18"	SW	0 - 7" Lt bn and gray mf SAND, some	13:25	09/23/1999		
		18			clayey Silt and f Gravels,				
	43	23			7 - 14.5" Gray silty CLAY, soft				
		25							
44 - 46'	44	9	19"	SP	Lt gray to dark gray CLAY AND SILT, trace	13:40	09/23/1999		
		20			f Sand laminations, soft, med plasticity				
	45	23							
		35							
46 - 48'	46	12	18"	SC	Lt gray silty CLAY, soft to med stiff	14:00	09/23/1999		
		22							
	47	34							
		34							
48 - 50'	48	15	17"	SM SP	Same as above	14:15	09/23/1999		
		22							
	49	39							
		40							
50 - 52'	50	6	15"	SW	0 - 2.25" Lt gray CLAY AND SILT	14:30	09/23/1999	0	collect sample: SB07-50-0999
		18			2.25 - 22.5" Lt gray clayey SILT, trace f Sand.				
	51	28							
		38							
52 - 54'	52	11	19"	SP	0 - 4" Lt gray CLAY AND SILT, soft	14:45	09/23/1999		
		23			4 - 10" Red c SAND, some mf Sand, little Silt grading				
	53	25			to orange lt bn cf Sand, some Silt, trace				
		36			f Gravel				
54 - 56'	54	17	16"		Red lt bn f SAND, some clayey SILT	15:00	09/23/1999		
		24			trace f Gravels, loose, wet at 4"				
	55	31							
		37							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 08
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/27/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/27/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Falling Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	0								
0 - 2'	1								
2 - 4'	2								
	3								
4 - 6'	4								
	5								
6 - 8'	6								
	7								
8 - 10'	8	27	8"	SM	0-6.75" Grayish lt bn cf SAND and SILT,	8:58	09/27/1999	0	collect sample:
		31			trace Clay and c Gravels, dry, dense				SB08-10-0999
	9	28		SW	6.75-8" Orange brown cf SAND, some cf				
		27			Gravels, loose,				
10 - 12'	10	11	12.5"	SW	Orange lt bn to tan cf SAND, trace silt and	9:08	09/27/1999	0	
		16			cf Gravel, loose, dry				
	11	17							
		17							
12 - 14'	12	5	10"	SW	Orange lt bn to tan cf SAND, some mf	9:20	09/27/1999		
		9		GW	Gravel, trace c Gravel and cobble frag, loose,				
	13	11			dry,				
		14							
14 - 16'	14	9	17.25"		Orange lt brown to tan cf SAND, little mf Gravel	9:31	09/27/1999		
		12			trace c Gravel, loose, dry,				
	15	13							
		14							
16 - 18'	16	13	8"	SP	0 - 6" Tan mf SAND, trace mf Gravel grading to	9:42	09/27/1999		
		15			vc Sand, little mf Sand and f Gravel,				
	17	12			6 - 8" Orange lt brown cf SAND, trace Silt and				
		12			mf Gravel				
18 - 20"	18	6	15.5"	SP	Tan to orange lt bn vc SAND, little mf Gravel	9:50	09/27/1999	0	
		10			trace Silt, loose, dry				
	19	14							
		17							
	20								

NOTES: All PID readings obtained from headspace jar containing soils from designated intervals.

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 08
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/12/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/12/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Rig with 140 lb Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	10	14"		Same as above 18-20' interval except	10:17	09/27/1999	2.9	collect sample:
		18		SM	5.5 - 7" White f SAND and SILT, some m Sand				SB08-20-0999
	21	15		SP	little f Gravel, loose				SB08-20MS-0999
		15							
22 - 24'	22	3	NO			10:26	09/27/1999		
		17	REC						
	23	15							
		17							
24 - 26'	24	16	NO			10:40	09/27/1999		
		14	REC						
	25	12							
		11							
26 - 28'	26	7	12"	SP	Tan cf SAND, trace f gravel, v. loose, dry	10:53	09/27/1999		
		8							
	27	8							
		16							
28 - 30'	28	8	13"	SP	0-10.5" Same as above	11:11	09/27/1999	5.9	
		10			10.5-13" Red brown cf SAND, little mf				
	29	11			Gravel, semi dense				
		18							
30 - 32"	30	14	9"	SW	Red brown cf SAND, little silt grading to tan	11:19	09/27/1999	9.4	collect sample:
		19			lt brown cf Sand, trace Silt and mf Gravel				SB08-30-0999
	31	22							
		35							
32 - 34"	32	15	14.5"	SP	Tan to lt brown orange c SAND, some m Sand	11:26	09/27/1999	3.2	
		15			little f Sand, trace f Gravels,				
	33	19							
		27							
34 -36'	34	12	17"		0-12.5" Tan cf SAND, some red brown mf gravel	11:42	09/27/1999	1.1	
		21			trace silt, dry				
	35	19			12.5-17" Tan cf SAND, semi loose, dry				
		22							
36 - 38'	36	9	13.75"	SP	0-8.25" Tan vc-c SAND, little mf Sand and	11:55	09/27/1999	2.2	
		8			trace f gravel, moist				
	37	13		CL	8.25-11.25" Gray to pinkish gray clayey SILT				
		20		SP-SM	11.25-13.75" Orange bn c SAND and f				
					Gravels, some f SAND and Silt, dry				
38 - 40'	38	19	14"	SP	0 - 10.5" Tan to red bn mc SAND grading	12:50	09/27/1999	0.7	
		20			to c Sand, some mf Sand, trace Silt				
	39	21			8-10.5" Cobble frag, conglomerate?				
		20		SM	10.5-14" Tan to white f SAND and clayey SILT				
	40				semi dense, dry				

NOTES: All PID readings obtained from headspace jar containing soils from designated intervals.

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 08
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/27/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/27/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	14	11.5"		0-5.5" Reddish brown cf SAND, some silt, well	13:07	09/27/1999	3.5	collect sample:
		19			sorted, dry, loose				SB08-40-0999
	41	17			5.5-11.5" Tan to white f SAND and SILT, little m				
		24			sand, trace mica, well sorted, dry, semi loose				
42 - 44'	42	14	14.5"	SW	Tan to white c SAND, some m sand, little f sand,	13:20	09/27/1999	48.5	
		19			trace clay and silt laminations, semi dense, dry				
	43	26							
		25							
44 - 46'	44	5	13"	SW-CL	Tan to beige cf SAND, little Clay and Silt,	13:30	09/27/1999		
		6			semi dense, dry				
	45	12							
		22							
46 - 48'	46	10	15"	SP	Beige to tan c SAND, trace mf Sand,	13:44	09/27/1999	105	
		15			semi dense, moist				
	47	20							
		22							
48 - 50'	48	8	15.25"		Same as above	13:53	09/27/1999	49.2	
		10							
	49	11							
		17							
50 - 52'	50	4	16.25"	SP	Tan to white c SAND, little mf Sand,	14:02	09/27/1999	58.6	collect sample:
		11			moist, loose to semi dense				SB08-50-0999
	51	14							
		20							
52 - 54'	52	6	15.5"	SP	Lt gray c SAND grading to orange brown cf	14:15	09/27/1999	33.5	
		6			sand, little clay and silt				
	53	9			From 7-8.25" silty clay lense, soft				
		11							
54 - 56'	54	11	19.5"	SP	0-7.5" Lt gray mf SAND, little c Sand, trace	14:30	09/27/1999		
		10			f Gravel, moist				
	55	9		SM-CL	7.5-19.5" Orange bn vc SAND, some SILT,				
		16			Gray Clay lense at 19 - 19.25" . Wet at 76.5 ".				
56 - 58'	56	3	17"	SP	Lt gray to tan c SAND, trace mf Sand and Silt,	14:42	09/27/1999	39	
		7			all wet, loose to semi dense				
	58	13							
		18							

NOTES: All PID readings obtained from headspace jar containing soils from designated intervals.

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 09
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/21/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/21/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel, P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Falling F10 Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	0								
0 - 2'	1								
2 - 4'	2								
	3								
4 - 6'	4								
	5								
6 - 8'	6								
	7								
8 - 10'	8								
	9								
10 - 12'	10	12	NO		Bn and Blk cf SAND and GRAVELS, Cobble frag,	10:26	09/21/99		
		5	REC		v. loose, slough from walls?				
	11	6							
		5							
12 - 14'	12								
	13								
14 - 15'	14								
15 - 17'	15	8	NO		Same as above	10:40	09/21/99		
		10	REC						
	16	22							
		30							
	17								
18 - 20"	18	8	6.5"	SP	Tan mc SAND and f GRAVEL, trace f sand,	11:03	09/21/99		
		6			loose, dry				
	19	5							
		7							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 09
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/21/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/21/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10Falling Rig with 140 lb Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	3	7.5"	SW	Tan to pale bn c SAND and f GRAVEL,	11:15	09/21/99	0	collect sample:
		6		GP	some mf sand, loose, moist				SB09-20-0999
	21	6							
		9							
22 - 24'	22	10	11.75"	SW	Tan cf SAND, v loose, moist	11:22	09/21/99		
		7							
	23	4							
		7							
24 - 26'	24	9	NO		Broken cobble frag in spoon tip	11:38	09/21/99		
		9	REC						
	25	18							
		16							
26 - 28'	26	7	15.5"	SW	Tan to red yellow mf SAND, little c Sand, trace	11:45	09/21/99		
		8		GM	Silt and f Gravel, loose, dry,				
	27	10							
		13							
28 - 30'	28	12	15.5"	SW	0 - 6" Red bn cf SAND, little SILT, loose, dry	11:50	09/21/99	0	collect sample:
		16			6 - 15.5" Tan to red yellow mf SAND, some c Sand				SB09-30-0999
	29	17			trace f Gravel and Silt, loose, dry				
		18							
30 - 32"	30	17	14"	SW	Tan mc SAND, little f sand and f gravel, trace silt and	12:45	09/21/99		
		20			c gravel, dry, semi loose				
	31	20							
		25							
32 - 34"	32	7	9.75"	SW	Same as above	12:58	09/21/99		
		12							
	33	16							
		18							
34 -36'	34	14	11.25	SP	Tan c SAND, little f sand, dense, dry	13:06	09/21/99		
		25							
	35	21							
		27							
36 - 38'	36	12	13"	SP	Tan c SAND, little mf sand, trace clay and f gravels, semi	13:17	09/21/99		
		15			dense, dry,				
	37	15							
		19							
38 - 40'	38	13	16.5"	SP	0 - 6.5" Tan c SAND, little mf sand, trace clay and silt	13:24	09/21/99		
		15		SP-SM	6.5 - 16.5" Tan f SAND, little silt, well sorted, dry				
	39	13							
		17							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 09
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/21/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/21/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	8	17.25"	SW	0 - 8.5" Tan cf SAND, some silt, little f gravel	13:30	09/21/99	0	collect sample:
		12			semi dense, dry				SB09-40-0999
	41	12		SM	8.5 - 17.25" Tan f SAND, little silt, semi dense, dry,				
		16							
42 - 44'	42	5	17.5"	SM-SC	0 - 7.5" Tan to orange bn cf SAND, some Silt, little Clay	13:49	09/21/99		
		4		CL-ML	7.5 - 11.5" Lt gray CLAY and SILT, trace lt bn mf sand				
	43	12		SP	11.5 - 17.5" Tan mf SAND, some red, bn laminations(1/16")				
		18			trace silt, semi dense, dry				
44 - 46'	44	10	18"	SP,SC	0-7.75" Tan mf SAND, trace lt gray Clay	13:58	09/21/99		
		11		CL-ML	7.75-9.5" Lt gray Clay and SILT, trace f red bn sand				
	45	7			laminations				
		8		SM	9.5-14.5" Tan to orange bn mf SAND, little c Sand, some				
					silt, semi dense, dry				
				CL-ML	14.5-18" Lt gray CLAY and SILT, med plasticity				
46 - 48'	46	10	14"	SP	0 - 12.5" Yellowish bn to tan mf SAND, trace c Sand,	14:07	09/21/99		
		8			and clay				
	47	8		CL-ML	12.5 - 14" Lt gray CLAY and SILT, trace mf sand, med				
		11			stiff , dry,				
48 - 50'	48	5	17.5"	SW	0 - 4.5" Yellowish bn cf SAND, trace Silt and Clay, moist	14:22	09/21/99		
		6		ML-CL	4.5 - 8.5" Lt gray SILT and CLAY, trace mf red bn Sand				
	49	12		SM	8.5 - 13" Red bn mf SAND, some Silt, moist, loose				
		22		SP	13 - 17.5" Tan c SAND, little f Sand, semi loose, wet				
50 - 52'	50	5	15.5"	SP	Tan c SAND, little f Sand, dense, wet	14:32	09/21/99		
		12							
	51	21							
		25							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB-10
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/28/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/28/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F-10 Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	0									
0 - 2'	1									
2 - 4'	2								8.8	med odor at 3.5 fbgs collect sample: SB10-3.5-0999
	3									
4 - 6'	4									
	5									
6 - 8'	6									
	7									
8 - 10'	8	4/24"	5"			Lt to dk brown cf SAND and GRAVELS, fill?	9:16	09/28/1999	0	
	9									
10 - 12'	10									
	11									
12 - 14"	12									
	13									
14 - 16"	14									
	15									
16 - 18"	16									
	17									
18 - 20"	18	1				Lt brown cf SAND, some silt, little cf gravel	9:23	09/28/1999		
		3				and cobble frag, v loose, wet				
	19	2								
		3								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER:SB-10
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/28/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/28/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Falling F-10 Drill Rig with 140 lb Hammmer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
20 - 22'	20 21	4/24"	No Rec			Same as above-loose slough material	9:33	09/28/1999		
22 - 24'	22 23	6 4 6 7	No Rec			Cobble frag in tip	9:46	09/28/1999	9.2	
24 - 26'	24 25	10 6 9 11	14"		SP	Lt brown to pinkish tan cf SAND, some cf gravel, trace cobble frag and silt, v loose, dry	9:52	09/28/1999		collect sample: SB10-24-0999
26 - 28'	26 27	4 7 18 14	12.5"		SP SW	Tan c SAND, some mf sand, little mf gravel grading to tan cf sand, well sorted, dry, semi loose.	10:02	09/28/1999		
28 - 30'	28 29	5 10 24 31	12"		SP	0-7" reddish lt brown cf SAND, little silt grading to orange bn cf sand, little f gravel 7-12" reddish tan f SAND and SILT, some mc sand, little fc gravel, semiloose dry	10:17	09/28/1999	4.3	
30 - 32'	30 31	14 25 20 22	14.5"			0-11.5" lt brown to orange brown m SAND, some f sand and silt, some mf gravel, semi dense, dry 11.5 - 14.5" tan cf SAND, trace gravels, loose	10:22	09/28/1999		collect sample: SB10-30-0999
32 - 34'	32 33	15 30 20 22	19"		SP SW	0-6.5" reddish lt brown m SAND, little f sand, trace mf gravel semi loose, dry, 6.5-19" orange tan mf SAND, some c sand grading to tan cf sand, semidense,dry	10:40	09/28/1999	12	
34 - 36'	34 35	9 11 16 26	14"			Tan mf SAND, some c sand, trace silt, grading to cf sand, trace silt and f gravel, dry, semi loose	10:55	09/28/1999	14.8	
36 - 38'	36 37	18 34 41 45	17.5"		SW	Orange lt brown cf SAND, trace mf gravel grading to reddish lt brown cf sand little fc gravel, v dense,	10:59	09/28/1999	13.4	
38 - 40'	38 39	6 11 14 19	17"		SP	White to tan mf SAND, some silt, trace c sand semi dense, dry, trace micas	11:20	09/28/1999	21	

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB-10
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/28/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/28/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F-10 Drill Rig with 140 lb Hammmer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	10	12"			Same as above	11:28	09/28/1999	12.8	Collect sample: SB10-40-0999
		15								
	41	16								
		19								
42 - 44'	42	7	15.75"		SW	0-4.75" white mf SAND, trace c sand and micas	11:50	09/28/1999		
		14								
	43	23			SP	4.75 - 8.75" tan mf SAND, trace c sand				
		39			SP	8.75-15.75" orange tan c SAND, little mf sand, semi dense				
44 - 46'	44	8	14"		SW	Tan to white c SAND, little mf sand, dense dry	11:58	09/28/1999	0.6	
		17								
	45	29								
		40								
46 - 48'	46	12	15.5"		SW	White to tan mc SAND, little f sand, dense dry	12:50	09/28/1999	4	
		24								
	47	39								
		46								
48 - 50'	48	6	18.25"		SW	Tan cf sand, trace clayey silt and micas, semi dense, dry	13:00	09/28/1999	4.8	
		14								
	49	19								
		24								
50 - 52'	50	8	16.5"			Same as above	13:08	09/28/1999		collect sample: SB10-50-0999
		15								
	51	17								
		23								
52 - 54'	52	14	18.5"			Lt brown cf SAND, trace clayey silt grading through pink and tan mc SAND, little f sand to orange lt brown mc SAND, some f sand and clayey silt, moist at tip	13:21	09/28/1999	0	
		23								
	53	20								
		22								
54 - 56'	54	9	16.5"		SW	0-3.5" lt gray mf SAND, some c sand	13:29	09/28/1999	2.5	
		14			SP	3.5 - 16.5" orange lt brown c SAND, little m sand, t f sand grading to tan mc sand, little f sand and silt, wet at 10". Lt gray clay and silt laminations at 9-10" and 12.5 - 14"				
	55	15								
		17			SM,CL					
56-58'	56	14	19"		SP	Lt gray to orange tan c SAND, trace mf sand, all wet, semi loose. Lt gray clayey silt lense at 17.5-18.25"	13:35	09/28/1999		
		15			CL					
	57	15								
		22								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB-11

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/25/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/26/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

Falling F-10 Drill Rig with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	0									
0 - 2'	1									
2 - 4'	2									
	3									
4 - 6'	4									
	5									
6 - 8'	6									
	7									
8 - 10'	8	4	11"		SW	Pale bn cf SAND, some f gravel and	11:16	10/25/1999	0	
		6				grading to orange lt bn cf SAND,				
	9	10				trace f gravel, loose, moist				
		16								
10 - 12'	10	6	12"		SW	Pale bn grading to tan c SAND and	11:27	10/25/1999		SB11R-10-1099
		6				*f GRAVEL, little m sand, trace f sand*				
	11	11				and m gravel, loose, moist				
		11								
12 - 14"	12	7	11.5"		SW	Tan c SAND and f GRAVEL, trace mf	11:35	10/25/1999		
		8				sand and mc gravel, loose				
	13	12				moist to dry				
		9								
14 - 16"	14	6	13.5"			Same as 12-14 except all dry	13:00	10/25/1999		
		18								
	15	14								
		17								
16 - 18"	16	9	11"			Same as above	13:10	10/25/1999		
		14								
	17	19								
		12								
18 - 20"	18	8	10.5"			Pale bn to tan cf sand, some f gravel	13:18	10/25/1999		collect sample:
		7				trace mc gravel, semi dense, dry				SB11R-20-1099
	19	17								
		15								
	20									

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB-11
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/25/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/26/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Falling F-10 with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
20 - 22'	20	10	11"			Same as 16-18 interval	13:26	10/25/1999	0	
		15								
	21	13								
		12								
22 - 24'	22	6	11"			Same as above	13:38	10/25/1999		
		7								
	23	13								
		13								
24 - 26'	24	11	17"		SW	Tan cf SAND, little f gravel, semi dense	13:54	10/25/1999		
		12				dry				
	25	15								
		19								
26 - 28'	26	28	14.5"			Mixed lt bn and tan mc SAND, some	14:10	10/25/1999		
		15				f gravel, trace f sand and silt, semi				
	27	8				loose, dry				
		9								
28 - 30'	28	4	15.5"			0-1" same as above	14:18	10/25/1999		collect sample:
		8				1-2" tan mc SAND, little f sand, loose				SB11R-30-1099
	29	10			SP	dry. 2-15.5" yellowish lt br f SAND,				
		16				little mc sand and silt, dry, semi dense				
30 - 32'	30	10	No			Mixed bn and tan SAND in	14:32	10/25/1999		
		29	Rec			spoon tip				
	31	25								
		26								
32 - 34'	32	19	14.5"		SW	Mixed lt bn and tan vc-c SAND, some	14:47	10/25/1999		
		25				mf sand, little f gravel, trace silt,				
	33	30				dense, dry				
		33								
34 - 36'	34	29	8"		SM	Pale bn cf SAND AND SILT, little f	15:04	10/25/1999		
		32				gravel, trace clay, v dense, dry				
	35	34								
		30								
36 - 38'	36	19	9.5"		SW	Tan and white cf SAND, trace f gravel,	7:43	10/26/1999		
		25				v dense, dry, wet on tip of spoon				
	37	32								
		34								
38 - 40'	38	15	12.5"			Same as above	7:57	10/26/1999	0	collect sample:
		16								SB11R-40-1099
	39	18								SB11R-40D-1099
		18								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB-11
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/25/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/26/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F-10 with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	10	9"			tan to white f SAND, little m sand, trace	8:05	10/26/1999	0	
		16				c sand and f gravel, dense,moist,				
	41	19								
		23								
42 - 44'	42	15	15.5"			0-10" pale bn cf SAND, little silt, wet	8:27	10/26/1999		
		26				10-12" orange lt bn mc SAND, trace f				
	43	30				sand, moist.				
		32				12-15.5" white mc SAND, dry				
44 - 46'	44	10	11.5"		SW	Pale bn mc SAND, some silt, trace	8:35	10/26/1999		
		17				f sand and clay, moist, dense				
	45	22								
		25								
46 - 48'	46	10	12"		SW	0-9" same as above.	8:42	10/26/1999		
		15				9-12" White mf SAND, little clayey				
	47	20				silt, trace c sand, dense, dry				
		26								
48 - 50'	48	12	7.5"			White mf SAND, trace c sand and	8:52	10/26/1999		
		20				clayey silt, semi loose, dry				
	49	19								
		21								
50 - 52'	50	9	11"			Same as above	9:04	10/26/1999	0	collect sample:
		14								**SB11R-50-1099**
	51	16								
		18								
52 - 54'	52	6	9.75"		SC	0-2" Lt Gray CLAY and f SAND, wet	9:15	10/26/1999		
		10				2-9.75" white grading to pale bn				
	53	17				cf SAND, little silt, loose				
		18								
54 - 56'	54	10	15.5"		SW	0-14" Orange lt bn vc-c SAND and f	9:22	10/26/1999		
		12				GRAVEL, little m sand and silt,				
	55	15				wet at 4".				
		15				14 - 15.5" Tan f GRAVEL,				
	56					some cf sand, trace silt, wet				
	57									
	58									
	59									
	60									

NOTES:

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LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 12
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/22/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/22/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3								
4 - 6'	4 5								
6 - 8'	6 7								
8 - 10'	8 9								
10 - 12'	10 11								
12 - 14'	12 13								
14 - 16'	14 15								
16 - 18'	16 17								
18 - 20"	18 19 20	3 7 11 12	11"	SP GP	Pale bn cf SAND AND f GRAVEL, trace mc gravel and cobble frag, semi-loose, moist	10:44	10/22/1999		slight mold odor collect sample: SB12-20-1099

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 12
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/22/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/22/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 190 lb Downhole Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	7, 9	16"	SP	Same as above	10:52	10/22/1999		
	21	10, 13		GP					
22 - 24'	22	4	9.5"	SW	Pale bn cf SAND, some f Gravel, little	10:56	10/22/1999	0	
		5		GW	m Gravel, trace C Gravel, v loose, moist				
	23	10							
		11							
24 - 26'	24	3	12.75"	SP	Tan cf SAND, trace f Gravel, loose,	11:00	10/22/1999		
		5			dry				
	25	10							
		9							
26 - 28'	26	7	18"	SP	0 - 5" Tan cf SAND, trace Silt, loose	11:10	10/22/1999	0	
		10			dry				
	27	11			5 - 18" Mixed lt bn and tan vc-c SAND,				
		16			some f Gravel, little m Sand and Silt, dry				
28 - 30'	28	13	17"	SW	0 - 5" Orange lt bn cf SAND, some silt,	11:22	10/22/1999		collect sample:
		10			little mf Gravel				SB12-30-1099
	29	9			5 - 17" Tan mf SAND grading to c				SB12-30D-1099
		14			SAND and f GRAVEL, trace silt, loose				
					dry				
30 - 32"	30	11	16"	SW	Mixed tan and lt bn vc-c SAND and f	11:38	10/22/1999		
		16		GW	GRAVEL, little mf Sand, trace Silt, semi-				
	31	18			dense, dry				
		19							
32 - 34"	32	12	13.5"	SM	Tan grading to yellowish tan cf SAND,	11:49	10/22/1999		
		19			little varved clayey Silt, semi-moist				
	33	20							
		29							
34 -36'	34	19	10"	SM	Reddish lt bn f Silty SAND, little mc	11:58	10/22/1999	0	
		40			Sand and f Gravel, v.dense, dry				
	35	21							
		30							
36 - 38'	36	5	17"	SP	White to lt Gray f SAND, some clayey	13:05	10/22/1999	0	
		10		CL	Silt, loose to stiff,				
	37	10							
		15							
38 - 40'	38	5	13"		0 - 5.5" same as above	13:12	10/22/1999		collect sample:
		12		SP	5.5 - 13" Orange tan cf SAND,				SB12-40-1099
	39	15			trace micas, loose				
		19							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 12
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/22/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/22/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing with 190 lb downhole hamer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	6	11"	SP	Yellowish tan mf SAND, little Silt, trace	13:17	10/22/1999		
		11			c. Sand, loose, dry				
	41	15							
		19							
42 - 44'	42	10	13.75"	SP	Yellowish tan mc SAND, little f Sand,	13:30	10/22/1999	0	
		17			trace Silt, dense, moist				
	43	23							
		26							
44 - 46'	44	7		SP	0 - 1.5" Same as above	13:42	10/22/1999		
		13		GP	1.5 - 4.75" Orange bn vc-c SAND and				
	45	16			f GRAVEL, little Silt, trace mf Sand, wet				
		23		CL	4.75 - 10.25" Lt gray CLAY and SILT				
46 - 48'	46	9	15"		Same as above grading to tan mc SAND,	13:55	10/22/1999		
		12			trace f Sand. Pale bn clayey Silt and				
	47	16			mc Sand laminations at 6 - 10"				
		17							
48 - 50'	48	14	15.5"	SP,GP	0-13.5" Pale bn and tan mc SAND	14:06	10/22/1999		collect sample:
		14			and f GRAVEL laminations, dry				SB12-50-1099
	49	16		CL, SW	13.5-15.5" lt gray and lt bn clayey SILT,				
		13			some cf Sand, stiff.				
50 - 52'	50	6	13"	SP	0-9.5" Pale bn to tan mc SAND, little f	14:12	10/22/1999		
		9			Sand and Silt, moist				
	51	9		CL	9.5-11.5" Lt bn clayey SILT, some cf				
		13			Sand				
				SP	11.5 -13" White cf SAND, trace Silt				
52 - 54'	52	5	13.5"	SP	Pale bn cf SAND, little Silt, trace clay,	14:18	10/22/1999	0	
		11			semi-dense, moist				
	53	15							
		24							
54 - 56'	54	13		SW	Pale bn grading to pinkish tan vc - c	14:42	10/22/1999	0	
		13		GP	SAND and f GRAVEL, little Silt, trace				
	55	30			mf Sand and Clay, dense, wet				
		40							
	56								
	57								
	58								
	59								
	60								

NOTES:

PAGE 3 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 13
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/06/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/06/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	0								
0 - 2'	1								
2 - 4'	2								
	3								
4 - 6'	4								
	5								
6 - 8'	6								
	7								
8 - 10'	8								
	9								
10 - 12'	10								
	11								
12 - 14'	12								
	13								
14 - 16'	14								
	15								
16 - 18'	16								
	17								
18 - 20"	18								
	19								
	20								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 13
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/06/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/06/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Trembley/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Rig with 140 lb Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	5	13"	SW	Pale bn cf SAND, some mf Gravel, little	11:47	10/06/1999	0	collect sample:
		6		GP	Silt, trace c Gravel, loose, dry				SB13-20-1099
	21	12							
		15							
22 - 24'	22	10	15"	SW	Pale bn cf SAND, some f Gravel, little	12:00	10/06/1999		
		13		GW	m Gravel, trace c Gravel and Silt				
	23	19			loose, dry				
		23							
24 - 26'	24	7	14.5"	SW	Orange lt bn cf SAND, little mf Gravel,	12:05	10/06/1999		
		10		GW	trace c Gravel grading to vc-f tan Sand,				
	25	13			some f Gravel, trace m Gravel, loose,				
		17			dry.				
26 - 28'	26	6	14"	SP	Pale bn mf SAND, trace c Sand, dry	12:50	10/06/1999		
		10			grading to tan cf Sand at tip of spoon,				
	27	14			moist				
		17							
28 - 30'	28	10	9"	SW	Mixed lt bn and tan cf SAND, some f	13:00	10/06/1999	0	collect sample:
		16			Gravel, little Silt, trace mc Gravel and Cobble				SB13-30-1099
	29	19			semi loose, dry				
		26							
30 - 32"	30	14	12"	SP	Orange lt brown mf SAND, some Silt,	13:15	10/06/1999		
		17		SM	loose, dry				
	31	19							
		20							
32 - 34"	32	6	15.25"	CL	0 - 7" Olive yellow clayey SILT grading to	13:23	10/06/1999		
		21		SP	brownish yellow mf Sand, trace c Sand				
	33	36			dense, dry				
		42		SW	7 - 15" Tan to pale bn cf SAND, little Silt				
				SM	grading to f Sand and Silt, trace mc Sand,				
					moist				
34 -36'	34	24	13"	SW	Lt bn to orange lt bn cf SAND and f	13:33	10/06/1999		
		30			GRAVEL, some m Gravel (red to black staining)				
	35	19			trace silt, dense				
		17							
36 - 38'	36	8	11"	SP	White m SAND, trace f sand and micas,	13:48	10/06/1999		
		14			grading to tan f sand, moist				
	37	16							
		19							
38 - 40'	38	10	15"	SP	0 - 6" Tan to white mf SAND, trace silt and	13:56	10/06/1999		
		11			micas, loose, dry				
	39	16		CL	6 - 9.5" Lt bn to dk red and gray clayey				
		20			SILT, med stiff, slight plasticity				
	40			SP	9.5 - 15" Pale bn to white mf SAND, little				
					silt, trace c Sand, semi dense, dry				

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 13
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/06/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/06/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	8	15"	CL-SC	0 - 6.5" Dk red gray to lt brown clayey	14:05	10/06/1999	0	collect sample:
		17			SILT, some f Sand, med stiff				SB13-40-1099
	41	17		SP	6.5 - 15" Tan mf SAND, little c Sand, trace				
		18			Silt and micas, loose, dry				
42 - 44'	42	9	18"	SP	0 - 4" Tan c SAND, trace f Sand, dense	14:12	10/06/1999		
		22		SW	4 - 14" Pinkish lt bn to lt bn cf SAND				
	43	35			little Silt, dense, dry				
		42			14 - 18" White c SAND, trace Silt, dense, dry				
44 - 46'	44	35	17"	SP	White c SAND grading through orange lt brown	14:38	10/06/1999		
		30			to pink c Sand, trace f Sand and clayey silt,				
	45	27			dense to semi loose, dry				
		26							
46 - 48'	46	17	18"	SW	0 - 9" Pale bn cf SAND, trace Silt, loose, dry	14:49	10/06/1999		
		26		SW-CL	9 - 15" Pale bn to orange lt bn cf SAND,				
	47	36			little Clay and Silt				
		42		SM	15-18" Pinkish brown f SAND and SILT,				
					moist, stiff				
48 - 50'	48	15	16.5"		Pinkish brown mf SAND grading through white	15:05	10/06/1999		
		20			to pale brown mc sand, little f trace clayey silt,				
	49	29			semi dense to dense, dry				
		38							
50 - 52'	50	12	14.75"	SP	Tan to pale bn mc SAND, little f Sand, trace	15:18	10/06/1999	0	collect sample:
		25			Silt, dense, moist at 13"				SB13-50-1099
	51	28							
		30							
52 - 54'	52	5	18"	SP-SC	Tan to pale brown c SAND, some m Sand, little	15:29	10/06/1999		
		9			gray Clay and Silt, trace f sand, grading to red				
	53	18			c Sand, trace f Sand and Silt, wet at tip of				
		20			spoon				
54 - 56'	54	7	15"	SP	Red grading through pale brown to white vc-c	15:43	10/06/1999		
		13		GP	SAND, some m Sand and f Gravel, little f Sand				
	55	22			and Silt, trace varved clay, semi dense, wet				
		26							

NOTES:

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LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB-14

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/19/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/19/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

Failing F7 Drill Rig with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	0								
0 - 2'	1								
2 - 4'	2								
	3								
4 - 6'	4								
	5								
6 - 8'	6								
	7								
8 - 10'	8								
	9								
10 - 12'	10								
	11								
12 - 14"	12								
	13								
14 - 16"	14								
	15								
16 - 18"	16								
	17								
18 - 20"	18	2	11.75"	SP	Pale bn to tan vc-f SAND and f GRAVEL, little m Gravel, trace Cobble frag and C gravel, loose, dry	10:49	10/19/1999	5	slight odor collect sample: SB14-20-1099
		7							
	19	9							
		12							
	20								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB-14
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/19/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/19/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Falling F7 Drill Rig with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	4	14"		Same as above except little visual	11:01	10/19/1999		slight odor
		4			black staining, moist				
	21	8							
		10							
22 - 24'	22	7	13.25"		Same as above except dry	11:20	10/19/1999		slight odor
		6							
	23	7							
		5							
24 - 26'	24	2	13.25"		*0 - 6.5" same as above*	11:26	10/19/1999		slight odor
		3		SP	6.5 - 13.25" Pale bn vc-c SAND, some				
	25	2			f Gravel, little m Sand, trace f Sand, dry				
		6			v loose				
26 - 28'	26	5	16.50"	SP	Same as above except m Gravels	11:32	10/19/1999		
		6			grading to tan c Sand , trace mf Sand				
	27	8			and Gravel, v loose, dry				
		10							
28 - 30'	28	8	17"	SP	0 - 3" tan c SAND, trace mf Sand and	11:40	10/19/1999		
		8			Gravel, v loose, dry				
	29	10		SW	3 - 9.5" mixed lt bn and tan vcf SAND				
		15			*and f GRAVEL, little silt, trace m gravel*				
				SW	9.5 - 17" Orange lt bn cf SAND, trace f				
					Gravel, loose				
30 - 32"	30	13	7.5"	SW	Same as above 9.5 - 17" interval	11:50	10/19/1999	0	collect sample:
		16							SB14-30-1099
	31	14							
		16							
32 - 34"	32	8	21.75"	CL-ML	0 - 7" Olive yellow SILT grading to	12:02	10/19/1999		
		15			clayey SILT, stiff				
	33	20		SP	7 - 18.5" same as 30 - 32" interval				
		23		GM	18.5 - 21.75" Mixed lt bn and tan vcf				
					SAND AND f GRAVEL, little Silt and				
					m Gravel, semi-dense				
34 -36'	34	17	13.75"	SP	Same as 32 - 34' interval	12:48	10/19/1999		
		17							
	35	19							
		17							
36 - 38'	36	7	9.75"		0 - 6" same as above	13:04	10/19/1999		
		13		SP	6 - 9.75" Tan mf SAND, little c Sand,				
	37	11			trace Silt and micas				
		9							
38 - 40'	38	5	10"	SP	Same as above 6 - 9.75" interval	13:20	10/19/1999		
		7							
	39	9							
		8							

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB-14
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/19/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/19/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

F10 Failing Drill Rig with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
40 - 42'	40	4	20"	SP	Tan to white mf SAND, little c Sand,	13:38	10/19/1999		collect sample:
		6			trace Silt and micas grading to pale				SB14-40-1099
	41	5			bn c SAND, little m Sand, trace f Sand,				
		9							
42 - 44'	42	9	15.25"	SP	Pale bn to white c SAND, little m Sand,	13:52	10/19/1999		
		8			trace f Sand, semi-moist				
	43	13							
		13							
44 - 46'	44	3	12"		0 - 4.75" same as above, except moist	14:10	10/19/1999		
		6		SP	4.75 - 12" lt bn grading to reddish bn vc				
	45	9			SAND and f GRAVEL, little m Sand,				
		17			trace f Sand and Silt, wet				
46 - 48'	46	6	12"	SP	Lt bn grading to tan cf SAND, trace Silt,	14:24	10/19/1999		
		12			loose to dense, moist to dry.				
	47	17							
		22							
48 - 50'	48	9	7"	SP	Lt bn grading to pinkish tan cf SAND,	14:38	10/19/1999		
		16			trace silt and dk gray clayey Silt.				
	49	24							
		30							
50 - 52'	50		11.5	SP	0 - 3" Pinkish tan to pale bn cf SAND,	14:50	10/19/1999	0	collect sample:
SB14 - 50					trace clayey Silt				SB14-50-1099
	51			GM-GP	3 - 11.5" Lt gray clayey SILT and				
					varved pale bn f Gravel, wet				
52 - 54'	52		17.5"		0 - 3" same as above 3 - 11.5" interval	15:05	10/19/1999		
					3" - 17.5" Tan cf SAND, trace micas,				
	53				loose, semi-moist				
54 - 56'	54		13.5"	SP	Pale bn vc -c SAND and f GRAVEL,	15:12	10/19/1999		
					little Silt, trace mf Sand, wet				
	55								
	56								
	57								
	58								
	59								
	60								

NOTES:

PAGE 3 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 15
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/08/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/08/1999
GEOLOGIST: Morgan Evans — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3								
4 - 6'	4 5								
6 - 8'	6 7								
8 - 10'	8 9	7 10 7 12				10:00	10/08/1999		collect sample: SB15-10-1099
10 - 12'	10 11	6 8 12 15				10:12	10/08/1999		
12 - 14'	12 13	6 6 8 12				10:50	10/08/1999		
14 - 16'	14 15	7 5 9 14				11:03	10/08/1999		
16 - 18'	16 17	4 9 9 10				11:15	10/08/1999		
18 - 20"	18 19 20	8 9 10 10	11"	SP GP	Pale bn cf SAND AND f GRAVEL, trace mc gravel and cobble frag, semi-loose, moist	11:25	10/08/1999		collect sample: SB15-20-1099

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 15
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/08/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/08/1999
GEOLOGIST: Morgan Evans
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	20								
20 - 22'		4,11	16"	SP	Same as above	11:29	10/08/1999		
	21	13, 11		GP					
22 - 24'	22	8	9.5"	SW	Pale bn cf SAND, some f Gravel, little	11:35	10/08/1999	0	
		6		GW	m Gravel, trace C Gravel, v loose, moist				
	23	8							
		10							
24 - 26'	24	4	12.75"	SP	Tan cf SAND, trace f Gravel, loose,	11:42	10/08/1999		
		5			dry				
	25	8							
		10							
26 - 28'	26	10	18"	SP	0 - 5" Tan cf SAND, trace Silt, loose	11:51	10/08/1999	0	
		12			dry				
	27	10			5 - 18" Mixed lt bn and tan vc-c SAND,				
		15			some f Gravel, little m Sand and Silt, dry				
28 - 30'	28	4	17"	SW	0 - 5" Orange lt bn cf SAND, some silt,	12:00	10/08/1999		collect sample:
		4			little mf Gravel				SB15-30-1099
	29	5			5 - 17" Tan mf SAND grading to c				
		8			SAND and f GRAVEL, trace silt, loose				
					dry				
30 - 32'	30	6	16"	SW	Mixed tan and lt bn vc-c SAND AND f	12:46	10/08/1999		
		4		GW	GRAVEL, little mf Sand, trace Silt, semi-				
	31	5			dense, dry				
		6							
32 - 34'	32	7	13.5"	SM	Tan grading to yellowish tan cf SAND,	12:57	10/08/1999		
		12			little varved clayey Silt, semi-moist				
	33	10							
		16							
34 -36'	34	16	10"	SM	reddish lt bn f Silty SAND, little mc	13:08	10/08/1999	0	
		27			Sand and f Gravel, v.dense, dry				
	35	24							
		22							
36 - 38'	36	1-	17"	SP	White to lt Gray f SAND, some clayey	13:17	10/08/1999	0	
		10		CL	Silt, loose to stiff,				
	37	10							
		9							
38 - 40'	38	7	13"		0 - 5.5" same as above	13:35	10/08/1999		collect sample:
		8		SP	5.5 - 13" Orange tan cf SAND,				SB15-40-1099
	39	13			trace micas, loose				
		20							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 15
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/08/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/08/1999
GEOLOGIST: Morgan Evans
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	10	11"	SP	Yellowish tan mf SAND, little Silt, trace c. Sand, loose, dry	13:17	10/08/1999		
		12							
	41	16							
		18							
42 - 44'	42	6	13.75"	SP	Yellowish tan mc SAND, little f Sand, trace Silt, dense, moist	13:30	10/08/1999	0	
		8							
	43	15							
		17							
44 - 46'	44								
	45								
46 - 48'	46								
	47								
48 - 50'	48								
	49								
50 - 52'	50								
	51								
52 - 54'	52								
	53								
54 - 56'	54								
	55								
	56								
	57								
	58								
	59								
	60								

NOTES:

PAGE 3 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 16

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/21/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/22/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

F10 Falling with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	0								
0 - 2'	1								
2 - 4'	2								
	3								
4 - 6'	4								
	5								
6 - 8'	6								
	7								
8 - 10'	8	3	6"	SP	Orange bn cf SAND, trace f Gravel and cobble frag, moist	11:00	10/21/1999	0	
		7							
	9	10							
		14							
10 - 12'	10	3	12"	SP	Pale bn cf SAND, little mf Gravel, loose moist	11:10	10/21/1999		collect sample: SB16-10-1099
		9							
Repeat	11	4							
		6							
12 - 14"	12		13"	SP	Tan cf SAND, some mf Gravel, loose, dry	11:28	10/21/1999	0	
	13								
14 - 16'	14	4	12	SP	same as above	11:37	10/21/1999		
		4							
	15	7							
		13							
16 - 18'	16	9	13"	SP	Pale bn to tan c SAND, some mf Sand and gravel, trace c Gravel and cobble frag, loose, dry	12:54	10/21/1999	0	
Repeat		9							
	17	9							
		6							
18 - 20"	18	5	13"	SP	Pale bn cf SAND and f GRAVEL, trace mc Gravel and cobble frag, semi-loose, dry	12:59	10/21/1999		
SB16 - 20		9		GP					
	19	6							
		10							
	20								

NOTES:

PAGE 1 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 16
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/21/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/22/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 190 lb Downhole Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20		8.5"	SP	Same as above except moist to 4.5"	13:12	10/21/1999		collect sample:
	21			GP					SB16-20-1099
22 - 24'	22	3	12"		0 - 5.5" same as above	13:20	10/21/1999	0	
		6		SP	5.5 - 12" Tan cf SAND, some f				
	23	9			Gravel, little m gravel, trace c gravel,				
		11			loose, moist				
24 - 26'	24	4	12"	SP	Tan cf SAND, trace f Gravel, loose,	13:28	10/21/1999		
		5			moist				
	25	7							
		9							
26 - 28'	26	5	14"		0 - 4" same as above	13:39	10/21/1999		
		4			4 - 14" Pale bn cf SAND, trace Silt and				
	27	6			f Gravel, loose, dry				
		10							
28 - 30'	28	6	13"	GW	0 - 4.5" Mixed lt bn and tan f GRAVEL,	13:47	10/21/1999	0	
		8			some c Sand, little m Sand, trace f Sand				
	29	9			and Silt				
		16		SP	4.5 - 13" Tan cf SAND, trace f Gravel,				
					loose, moist				
30 - 32"	30	4	14"	SP	0 - 10" Lt bn cf SAND, little f gravel,	13:54	10/21/1999	0	collect sample:
		11			trace Silt, moist, semi-loose.				SB16-30-1099
	31	19			10 - 14" Pale bn f SAND, little clayey				
		23			Silt, little m Sand, dense, moist				
32 - 34"	32	7	16"	SM	Pale bn cf SAND, little Silt, dense	14:10	10/21/1999		
		15							
	33	19							
		30							
34 -36'	34	14	10"	SM	Reddish lt bn f Silty SAND, some mc	14:18	10/21/1999	0	
		16			Sand, little cf Gravel, trace Clay, moist,				
	35	20			dense				
		28							
36 - 38'	36	12	14"	SP	0 - 6" Pale bn and tan laminations of	14:50	10/21/1999	0	
		8			mf SAND, little c Sand, trace f Gravel				
	37	18			6 14" Tan mf SAND, little c Sand,				
		19			trace micas and f Gravel, dense, dry				
38 - 40'	38	12	12.5"		White mf SAND, little c Sand, trace	14:56	10/21/1999		collect sample:
		14			micas and Gravel, dense, dry				SB16-40-1099
	39	11							
		17							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 16

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/21/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/22/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

F10 Falling with 190 lb downhole hamer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	40								
40 - 42'			6"	SP	Same as above	15:05	10/21/1999		
	41								
42 - 44'	42	7	14.5"	SP	Tan grading to pinkish tan cf SAND,	7:40	10/22/1999	0	
		10			little Silt, moist, semi-dense				
	43	12							
		15							
44 - 46'	44	4		SP	Pinkish tan grading to orange lt bn	7:48	10/22/1999		
		10			mf SAND, some c Sand, little Silt ,				
	45	9			moist, loose				
		15							
46 - 48'	46	5	15.75"	SM-SC	Pale bn mf SAND and varved SILT and	8:12	10/22/1999		
		9			CLAY lenses grading to tan mc Sand,				
	47	14			trace f Sand, semidense, dry				
		22							
48 - 50'	48	17	14"	SM-SC	Same as above	8:26	10/22/1999		
		15							
	49	10							
		14							
50 - 52'	50	13	8"	SP	Laminations of Tan mf SAND, trace c	8:40	10/22/1999		collect sample:
		16		CL - ML	Sand and lt bn mf SAND and clayey Silt				SB16-50-1099
	51	17							
		16							
52 - 54'	52	5	13.5"	SP	Pale bn to tan cf SAND, trace silt	9:22	10/22/1999	0	
		11			semi-loose, moist				
	53	15							
		24							
54 - 56'	54	13		SW	Pale bn grading to pinkish tan vc - c	9:40	10/22/1999	0	
		13		GP	SAND and f GRAVEL, little Silt, trace				
	55	30			mf Sand and Clay, dense, wet				
		40							
	56								
	57								
	58								
	59								
	60								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 17
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/26/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/27/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3								
4 - 6'	4 5								
6 - 8'	6 7								
8 - 10'	8 9	25 20 16 13	14"	SP-GP	Pale bn c SAND and f GRAVEL, some mf Sand, trace mc Gravel and Cobble dense, dry	10:58	10/26/1999	0	collect sample: SB17-10-1099
10 - 12'	10 11	12 8 6 12	13.5"		Same as above except semi-dense	11:06	10/26/1999		
12 - 14'	12 13	6 6 5 7	12"		Same as above	11:20	10/26/1999		
14 - 16'	14 15	5 6 9 12	12"	SP GW	Pale bn cf SAND, little f Gravel grading to tan and white cf SAND and f GRAVEL, trace m Gravel, loose, dry	11:28	10/26/1999	0	
16 - 18'	16 17	3 7 13 12	10.5"	SP GM	Pale bn cf SAND and f GRAVEL, trace mc Gravel and Silt, loose, dry	11:40	10/26/1999		
18 - 20"	18 19 20	7 8 11 6	12"	SP GP	Same as above except moist at top of spoon and dry at the bottom	11:48	10/26/1999	0	collect sample: SB17-20-1099

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 17
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/26/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/27/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 190 lb Downhole Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	7	11"		Same as above except dry and trace cobble frag	11:54	10/26/1999	0	
		8							
	21	6							
		6							
22 - 24'	22	4	10.5	SP-GP	Pale bn cf SAND, some f Gravel, v. loose dry	12:50	10/26/1999		
		6							
	23	11							
		11							
24 - 26'	24	3	13"	SP	Tan vc-f SAND, little f Gravel, loose dry	13:00	10/26/1999		
		5							
	25	10							
		9							
26 - 28'	26	8	10.5"	GW	Mixed lt bn and tan f GRAVEL and SAND	13:07	10/26/1999	0	
		8		SP	little mf Sand and Silt				
	27	8							
		10							
28 - 30'	28	5	13"		same as above	13:11	10/26/1999		
		8							
	29	6							
		10							
30 - 32"	30	8	12.5"	SP	0-3" same as above	13:30	10/26/1999	0	collect sample: SB17-30-1099
		10			3-6" Tan cf SAND, trace silt, dry, loose				
	31	10			6-12.5" Pale bn cf SAND, trace Silt				
		14			and f Gravel				
32 - 34"	32	6	15.5"	SM	0-4.5" Olive yellow f SAND and SILT,	13:40	10/26/1999		
		12			trace m Sand, wet				
	33	18		CL	4.5 - 11" Olive yellow clayey SILT, little				
		25			f Sand, trace m Sand				
				SP	11-15.5" White cf SAND, s.dense, dry				
34 -36'	34	19	18.5"	SP	0-9.5" Tan to lt orange mf SAND, little silt	13:50	10/26/1999		
		17		GP	9.5 - 17" lt bn and tan f GRAVELS and				
	35	10			c SAND laminations, little silt				
		14		CL	17-18.5" Red bn clayey SILT, little f Sand				
36 - 38'	36	8	17.25"	SP	White and tan f SAND layers, little	14:05	10/26/1999		
		8			m Sand, trace c Sand and Silt, dry,				
	37	8			semi-loose				
		9							
38 - 40'	38	6	20"		same as above except all white	14:18	10/26/1999		collect sample: SB17-40-1099
		7							
	39	7							
		9							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 17
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/26/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/27/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 190 lb downhole hamer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	6	15"		White mf SAND, some c Sand , dry,	14:25	10/26/1999	0	
		9			semi-loose				
	41	12							
		10							
42 - 44'	42	19	16.25"	SP	White and tan mf SAND layers, semi-	14:34	10/26/1999		
		15			dense, dry				
	43	15							
		18							
44 - 46'	44	10	19.25"	SP	0 - 8" White to Lt Gray mf SAND	14:45	10/26/1999		
		14			8 - 19.25" Tan to Pinkish White cf SAND				
	45	11			trace micas				
		13							
46 - 48'	46	10	9"	SW	Tan grading to pinkish tan mf SAND,	7:46	10/27/1999	0	
		14			little c Sand, semi-dense, dry				
	47	17							
		23							
48 - 50'	48	6	14.5"	SW	Tan cf SAND grading to mc Sand , little	8:02	10/27/1999	0	collect sample:
		10			f Sand, loose to semi-loose, moist				SB17-50-1099
	49	15							
		13							
50 - 52'	50	6	13"		Same as above except lt bn and wet at	8:10	10/27/1999		
		9			the tip.				
	51	7							
		10							
52 - 54'	52	4	17"	SP	0-2" same as above except tan and moist	8:15	10/27/1999		
		3			2-11" Pale bn to pink tan cf SAND, little				
	53	4			f Gravel and Silt, trace clay, loose,dry				
		6			11-17" Tan to pale bn c SAND and f				
					GRAVEL, little m Sand and Silt, moist				
54 - 56'	54	4	17.5"	GM	Pale bn grading to lt bn c SAND and f	8:27	10/27/1999	0	
		8			GRAVEL, little mf Sand, trace clay				
	55	14			and silt, wet, dense				
		12							
	56								
	57								
	58								
	59								
	60								

NOTES:

PAGE 3 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 18
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/07/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/07/1999
GEOLOGIST: Morgan Evans
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3								
4 - 6'	4 5								
6 - 8'	6 7								
8 - 10'	8 9	18 23 20 22	5"		Lt to dk brown cf SAND and GRAVELS, fill?	905	10/07/1999	0	collect sample: SB18-10-1099
10 - 12'	10 11	15 19 18 16				938	10/07/1999	0	
12 - 14'	12 13	12 13 12 17				1000	10/07/1999	0	
14 - 16'	14 15	8 10 8 7				1020	10/07/1999	0	
16 - 18'	16 17	4 7 7 10				1040	10/07/1999	0	
18 - 20"	18 19 20	10 15 17 20			Lt brown cf SAND, some silt, little cf grave and cobble frag, v loose, wet	1100	10/07/1999	0	collect sample: SB18-20-1099

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 18

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/07/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/07/1999

GEOLOGIST: Morgan Evans — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

F10 Failing

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
	20								
20 - 22'		6, 15	16"	SP	Same as above	11:19	10/07/1999	0	
	21	11, 10		GP					
22 - 24'	22	5	9.5"	SW	Pale bn cf SAND, some f Gravel, little	11:27	10/07/1999	0	
		10		GW	m Gravel, trace C Gravel, v loose, moist				
	23	10							
		12							
24 - 26'	24	12	12.75"	SP	Tan cf SAND, trace f Gravel, loose,	11:33	10/07/1999	0	
		13			dry				
	25	12							
		14							
26 - 28'	26	10	18"	SP	0 - 5" Tan cf SAND, trace Silt, loose	11:45	10/07/1999	0	
		10			dry				
	27	15			5 - 18" Mixed lt bn and tan vc-c SAND,				
		15			some f Gravel, little m Sand and Silt, dry				
28 - 30'	28	8	17"	SW	0 - 5" Orange lt bn cf SAND, some silt,	12:10	10/07/1999	0	collect sample:
		10			little mf Gravel				SB18-30-1099
	29	12			5 - 17" Tan mf SAND grading to c				
		14			SAND and f GRAVEL, trace silt, loose				
					dry				
30 - 32'	30	18	16"	SW	Mixed tan and lt bn vc-c SAND and f	13:19	10/07/1999	0	
		23		GW	GRAVEL, little mf Sand, trace Silt, semi-				
	31	27			dense, dry				
		28							
32 - 34'	32	9	13.5"	SM	Tan grading to yellowish tan cf SAND,	13:32	10/07/1999	0	
		14			little varved clayey Silt, semi-moist				
	33	18							
		22							
34 -36'	34	18	10"	SM	Reddish lt bn f Silty SAND, little mc	13:32	10/07/1999	0	
		39			Sand and f Gravel, v.dense, dry				
	35	62							
		47							
36 - 38'	36	8	17"	SP	White to lt Gray f SAND, some clayey	13:45	10/07/1999	0	
		6		CL	Silt, loose to stiff,				
	37	7							
		7							
38 - 40'	38	8	13"		0 - 5.5" same as above	13:50	10/07/1999	0	collect sample:
		6		SP	5.5 - 13" Orange tan cf SAND,				SB18-40-1099
	39	9			trace micas, loose				
		8							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 18
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/07/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/07/1999
GEOLOGIST: Morgan Evans
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	3	11"	SP	Yellowish tan mf SAND, little Silt, trace c. Sand, loose, dry	13:17	10/07/1999	0	
		4							
	41	6							
		14							
42 - 44'	42	5	13.75"	SP	Yellowish tan mc SAND, little f Sand, trace Silt, dense, moist	13:30	10/07/1999	0	
		6							
	43	12							
		20							
44 - 46'	44	5	14.5"	SP	Tan to lt gray c SAND, little mf Sand, trace Silt and Clay, dense, moist	14:25	10/07/1999	0	
		4							
	45	8							
		14							
46 - 48'	46	9	13"	SC	White cf SAND grading to orange lt bn SAND AND CLAY, med stiff, dry	14:50	10/07/1999	0	
		11							
	47	13							
		17							
48 - 50'	48	5	15.5"	SM SP	Tan cf SAND, trace Clay and Silt grading to white C SAND, semi dense, dry	15:00	10/07/1999	0	
		8							
	49	12							
		19							
50 - 52'	50	5	13	SW	Tan to white cf SANDS, loose, dry	15:25	10/07/1999	0	
		8							
	51	12							
		19							
		14							
52 - 54'	52	4	11"	SP	Tan to orange bn mc SAND, trace f Sand, v. loose				
		9							
	53	19							
		27							
54 - 56'	54								
	55								
	56								
	57								
	58								
	59								
	60								

NOTES:

PAGE 3 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB19

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/15/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/18/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
0 - 2'	1									
2 - 4'	2 3									
4 - 6'	4 5									
6 - 8'	6 7									
8 - 10'	8 9	25 20 16 13	14"			Pale bn c sand and f gravel, some f sand, trace mc gravel and cobble frag, dense, dry	10:58	10/26/1999		
10 - 12'	10 11	12 8 6 12	13.5"			Same as above except semi dense	11:06	10/26/1999		
12 - 14"	12 13	6 6 5 7	12"			Same as above	11:20	10/26/1999		
14 - 16"	14 15	5 6 9 12	12"			Pale bn cf sand, little f gravel grading to tan and white cf sand and f gravel, trace m gravel, subangular to angular, loose to semiloose, dry	11:28	10/26/1999		
16 - 18"	16 17	3 7 13 12	10.5"			Pale bn cf sand and f gravel, little m gravel, trace c gravel, and silt, loose, dry	11:40	10/26/1999		
18 - 20"	18 19	7 8 11 6	12"			Same as above, moist at top to dry at bottom	11:48	10/26/1999		

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB19
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/15/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/15/1999
GEOLOGIST: Andrew Prophets
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
20 - 22'	20	7	11"			Same as above except dry and trace cobble frag	11:54	10/26/1999		
		8								
	21	6								
		6								
22 - 24'	22	4	10.5"			Pale bn cf sand, some f gravel, v loose dry	12:50	10/26/1999		
		6								
	23	11								
		11								
24 - 26'	24	3	13"			Tan v cf sand, little f gravel, loose dry	13:00	10/26/1999		
		5								
	25	7								
		11								
26 - 28'	26	8	10.5"			Tan vcf sand, little f hbn gravel, loose dry	13:07	10/26/1999		
		8								
	27	8								
		10								
28 - 30'	28	5	13"			Mixed lt bn and tan f gravel, some c sand, little m sand, and silt, trace f sand	13:11	10/26/1999		
		8								
	29	6								
		10								
30 - 32'	30	8	12.5"			0-3" same as above. 3-6" tan cf sand, trace silt, dry, loose 6-12.5" pale bn cf sand, trace silt and f gravel	13:30	10/26/1999		
		10								
	31	10								
		14								
32 - 34'	32	6	15.5"			0-4.5" olive yellow f sand and silt, trace m sand. 4.5-11" olive yellow clayey silt, little f sand, trace m sand gradig to orange silt and f sand, dense 11-15.5" white cf sand, dry, semi dense	13:40	10/26/1999		
		12								
	33	18								
		25								
34 - 36'	34	19	18.5"			0-9.5" yellowish tan to lt orange mf sand, little c sand and silt. 9-5-10.5" lt brown f gravel and vc-c sand some silt, dense, dry 10.5-17" tan c sand some f gravel, little silt. 17-18.5" reddish brown to bn clayey silt, little f sand, dense, dry layers	13:50	10/26/1999		
		17								
	35	10								
		14								
36 - 38'	36	8	17.25"			White and tan ? layers, f sand little m sand, trace c sand and silt dry, semi loose	14:05	10/26/1999		
		8								
	37	8								
		9								
38 - 40'	38	6	20"			Same as above except all white	14:18	10/26/1999		
		7								
	39	7								
		9								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB19
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/15/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/18/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel, P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25" HAS s.s at 2' intervals to 56'

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	6	15"			White mf sand, some c sand, dry	14:25	10/26/1999		
		9				semi loose				
	41	12								
		10								
42 - 44'	42	14	16.25"			White and tan layered, mf sand, little	14:34	10/26/1999		
		15				c sand, semi dense, dry				
	43	15								
		18								
44 - 46'	44	10	19.25"			0-8" white to lt gray mf sand,	14:45	10/26/1999		
		14				8-19.25" tan to pinkish white cf sand,				
	45	11				trace ?				
		13								
46 - 48'	46	10	9"			Tan grading to pinkish tan mf sand,	7:46	10/27/1999		
		14				little c sand semi dense, dry				
	47	17								
		23								
48 - 50'	48	6	14.5"			Tan cf sand grading to mc sand, little	8:02	10/27/1999		
		10				f sand, loose to semi dense, moist				
	49	15								
		13								
50 - 52'	50	6	13"			Same as above except lt bn and wet	8:10	10/27/1999		
		9				at tip				
	51	7								
		10								
52 - 54'	52	4	17"			0-2" same as above except all tan,	8:15	10/27/1999		
		3				moist. 2-11" pale bn grading through				
	53	4				pinkish tan cf sand, little f gravel and				
		6				silt, trace clay v loose, dry 11-17" tan				
						grading to pale bn c sand and f gravel				
						little m sand and silt, trace f sand,				
						loose, moist				
54 - 56'	54	4	17.5"			Pale bn grading to lt bn c sand and f	8:27	10/27/1999		
		8				gravel, little mf sand, trace clayey silt,				
	55	14				wet, dense				
		12								
	56									
	57									
	58									
	59									
	60									

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 20
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/12/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/13/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Trembley/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3								
4 - 6'	4 5								
6 - 8'	6 7								
8 - 10'	8 9	7 10 12 20	No Rec		Cobble frag and gravels	13:00	10/12/1999	0	
10 - 12'	10 11	11 12 13 16	10"	SW	Orange pale bn vc-c SAND, some m Sand, little f Sand and cf gravels grading to mf Sand, little c Sand and gravels, v.loose, moist	13:10	10/12/1999	0	collect sample: SB20-10-1099
12 - 14'	12 13	7 6 9 9	10.5"	SM	Orange pale bn cf SAND and SILT, little mf Gravel grading to pale bn cf Gravel, loose, dry	13:16	10/12/1999	0	
14 - 16'	14 15	5 11 9 7	7.5"	SM-SW	Orange pale bn cf SAND, little Silt, trace mf Gravels, loose, dry	13:28	10/12/1999		
16 - 18'	16 17	5 9 14 16	No Rec		Quartzite cobble frag wedged in spoon tip	13:38	10/12/1999		
18 - 20"	18 19 20	3 6 7 11	11.75"	SP	Pale bn to tan c SAND, little mf Sand and f Gravel, trace c Gravel and cobble frag, v. loose, moist	13:47	10/12/1999	0	

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 20
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/12/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/12/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F7 Failing Rig with 140 lb Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	6	10"		Same as above	13:53	10/12/1999	0	collect sample: SB20-20-1099
		6							
	21	9							
		9							
22 - 24'	22	5	12"		Same as above except all tan	13:58	10/12/1999		
		6							
	23	8							
		10							
24 - 26'	24	6	10"	SW	Tan cf SAND, trace cf Gravel, v.loose	14:05	10/12/1999		
		7							
	25	9							
		7							
26 - 28'	26	5	10"	SP	Same as above grading to Tan c SAND	14:20	10/12/1999		
		7			trace mf Sand and f Gravel, v. loose, dry				
	27	5							
		6							
28 - 30'	28	7	16"	SW	0 - 5" Mixed lt bn and tan vc-f SAND	14:30	10/12/1999		
		8			and f GRAVEL, little Silt, trace m Gravel,				
	29	4		SP-GP	5 - 12" Tan vc-c SAND, some f Gravel,				
		5			little mf Sand, trace Silt, v. loose, dry				
					12-16" Same as 0 - 5" interval				
30 - 32"	30	7	18"	SW	0 - 4.75" Same as above 0 - 5"	14:34	10/12/1999	0	collect sample: SB20-30-1099
		8		SM	4.75 - 18" Olive yellow f SAND and				
	31	4		CL	SILT grading to olive yellow clayey SILT				
		5			and f Sand, soft.				
32 - 34"	32	5	16.25"	SM-SC	0 - 4" Olive yellow clayey SILT and f SAND	14:40	10/12/1999		
		9			4 - 6" Orange lt bn f SAND, little m				
	33	18			Sand and silt				
		17		SW	6.5 - 16.25" Tan and dk red cf SAND.				
				GW	some cf Gravel, little Silt, dense, dry				
34 -36'	34	13	13"		0 - 6.25" Same as above 6.5 - 16.25"	14:50	10/12/1999		
		13			interval				
	35	12		SM	6.25 - 8" Red bn f SAND and SILT,				
		16			little mc Sand, dense				
				SP	8 - 13.5" Tan f SAND, little Silt, dry				
36 - 38'	36	7	5.5"	SP	Same as above 8"-13.5" interval	15:00	10/12/1999		
		18							
	37	18							
		21							
38 - 40'	38	6	17"	SP	0 - 4.25" yellowish tan mf SAND, little f	15:08	10/12/1999		
		10			Sand and Silt, trace c Sand, semi loose,				
	39	13			dry. 4.25-9.5" white mc SAND, some f				
		14			4.25 - 9.5" White mc SAND, some f Gravels				
	40				9.5 - 17" bn c SAND, trace mf sand,				
					semi dense, moist				

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 20
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/12/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/13/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	13	14.5"	SP	Tan to white mc SAND. Some f sand,	15:14	10/12/1999	0	collect sample:
		12			trace Silt, semi dense, slightly moist				SB20-40-1099
	41	10							
		14							
42 - 44'	42	5	15.5"	SW	Pale bn cf SAND, semi loose, moist	7:45	10/13/1999		
		11							
	43	14							
		19							
44 - 46'	44	5	10.5"	SW	Same as above grading to white c	7:57	10/13/1999		
		12			SAND, little m Sand, trace f Sand, loose,				
	45	15			dry				
		22							
46 - 48'	46	7	12.25"	SP	Tan grading to lt brown c SAND, little.	8:04	10/13/1999		
		11		SM	f Sand and clayey Silt,				
	47	11			loose, dry				
		12							
48 - 50'	48	4	24"	SP	Pale bn c SAND grading to lt gray	8:10	10/13/1999	0	collect sample:
		7		SM-SC	Silt and clayey Sand . Varved cf Sand				SB20-50-1099
	49	6			and clayey Silt sequences throughout				
		8							
50 - 52'	50	4	21.5"	SM-SC	0 - 10.25" Lt gray clayey SILT and pale	13:30	10/13/1999		Hammer rod sheared
		13			bn cf SAND				in BH. Retrieved
	51	18		SP	10.25 - 21.5" Tan to pale bn mf SAND,				spoon from BH at
		20			semi dense, dry				13:30
52 - 54'	52	4	15.5"		0 - 12" Tan to pale bn cf SAND, trace	14:00	10/13/1999		
		12			Silt, little f Gravel. 12-15.5" Lt brown grading				
	53	12			12 - 15.5" Red bn c SAND, little mf Gravel,				
		11			trace f Sand and Silt, loose, moist				
54 - 56'	54	4	14.75"	SP-GP	0 - 8.25" Red grading to Pale bn c SAND	14:07	10/13/1999		
		6			some f Gravel ,little m Sand and Silt, wet 4"				
	55	14		CL-SM	8.25 - 10.25" Lt gray SILT and CLAY,				
		21			little cf Sand				
				SP	10.25 - 14.75" Pale bn f SAND, little m				
					sand, trace c sand, dense, wet				

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 21

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/14/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/15/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Trembley/Delta Well & Pump — GROUND SURFACE ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

F10 Falling with 140 lb hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3								
4 - 6'	4 5								
6 - 8'	6 7								
8 - 10'	8 9	15 18 14 16	13.5"	GM SP-GP	0-5.25" Dk bn c-f SAND, some cf Gravels little clayey Silt, fill? 5.25-13.5" Orange lt bn vc-c SAND and f GRAVEL, trace mf Sand and m Gravel	8:30	10/14/1999	0	
10 - 12'	10 11	8 15 16 10	10"	 SP	0-3.5" Same as above 5.25 - 13.5" 3.5 - 6" Fractured cobble exhibiting gneissic banding 6-10" pale bn cf SAND, some mf gravel	8:43	10/14/1999	0	collect sample: SB21-10-1099
12 - 14'	12 13	7 10 9 10		SW	Pale bn cf SAND, little mf Gravel, trace cobble frag, loose, dry	9:20	10/14/1999	6	
14 - 16'	14 15	5 9 4 8	14"	SP	Pale bn cf SAND, trace mf Gravel grading to cf SAND AND f GRAVEL, trace cobble frag, loose, dry	9:38	10/14/1999	2	
16 - 18'	16 17	8 5 8 12	11.75	SP-GW	Pale bn cm SAND AND f GRAVEL, little m Gravel, trace c Gravel	10:18	10/14/1999		
18 - 20"	18 19 20	11 5 6 10	14"	SW GW	Pale bn to tan vc-f SAND AND f GRAVEL, little m Gravel, trace c Gravel loose, dry	10:40	10/14/1999	0	collect sample: SB21-20-1099

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 21
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/14/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/15/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing with 140 lb Hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	8	No		Cobble frag in spoon tip	10:52	10/14/1999	0	
		10	Rec						
	21	10							
		7							
22 - 24'	22	3	11"		Pale bn to tan vc-c SAND, some m Sand,	11:02	10/14/1999	0	
		4			trace f Sand and c Gravel, loose, dry				
	23	6							
		8							
24 - 26'	24	6	13.5"	SW	Tan cf SAND, trace mf Gravel, loose	11:22	10/14/1999		
		5							
	25	7							
		9							
26 - 28'	26	8	9.25"		Lt brown and tan cf SAND, some f	11:35	10/14/1999	0	
		8			Gravel, trace Silt, loose				
	27	5							
		4							
28 - 30'	28	5	10.5"		Same as above	11:40	10/14/1999		
		5							
	29	8							
		7							
30 - 32"	30	8	10.5"		0-8.5" same as above	11:43	10/14/1999	0	collect sample:
		8			8.5-10.5" Olive yellow f SAND AND SILT				SB21-30-1099
	31	5			trace clayey Silt, loose dry.				
		4							
32 - 34"	32	7	11"	SM	0-4" Olive yellow f SAND AND SILT,	11:55	10/14/1999		
		4			little c Sand, semi loose				
	33	13		GM	4 - 6" Red bn (iron staining?) cf SAND,				
		19			some mf Gravel, littl Silt, dense				
				SW	6.5 - 11" Tan cf SAND, trace silt, dense				
34 -36'	34	9	No			12:05	10/14/1999		
		17	Rec						
	35	18							
		23							
36 - 38'	36	6	12.75"	SP	White mf SAND, trace c Sand and f	14:05	10/14/1999		
		8			Gravel grading to pale bn mf Sand,				
	37	13			little Silt, loose to semi-dense				
		14							
38 - 40'	38	4	15"	SP	Pale bn grading to tan mf SAND, little Silt	14:18	10/14/1999		collect sample:
		7			trace c Sand, dry				SB21-40-1099
	39	12							SB21-40D-1099
		18							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 21
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/14/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/15/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GRUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Failing with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	5	15"		Same as above	13:26	10/14/1999	0	
		12							
	41	18							
		15							
42 - 44'	42	8	15.5"	SP	White mc SAND, little f Sand, semi-loose dry	13:35	10/14/1999		
		12							
	43	16							
		19							
44 - 46'	44	10	16"	SP	White to tan mc SAND, little f Sand semi-loose, dry	13:44	10/14/1999		
		13							
	45	16							
		18							
46 - 48'	46	4	9.5"	SW	White cf SAND, dense, dry	13:50	10/14/1999		Rod snapped on hammer attachment
		9							
	47	19							
		22							
48 - 50'	48		8"	SP	Tan grading to pale bn mc SAND, trace f Sand, clayey Silt laminations at 3.75 to 7"	10:15	10/15/1999		Retrieved rod, no blow counts. Using 190lb down-hole hammer
	49								
50 - 52'	50	16	12"	SP-GP	0 - 8" Pale bn f SAND and f GRAVEL, little clayey Silt, trace mc Sand, moist	10:30	10/15/1999	0	collect sample: SB21-50-1099
		11							
	51	10		CL	8 - 12" Lt gray CLAY and SILT with little lt bn f Sand laminations, all stiff				
		9							
52 - 54'	52	4	14.25"		Lt bn f SAND, little clayey Silt grading to pinkish tan cf SAND, trace Silt, moist, loose.	10:44	10/15/1999		
		3							
	53	4							
		6							
54 - 56'	54	7	14"		0 - 4" Same as above	11:00	10/15/1999	0	
		9			4 - 14" Lt pink grading to pale bn vc-f SAND, trace Silt and f Gravel, semi-dense, wet				
	55	10							
		15							
	56								
	57								
	58								
	59								
	60								

NOTES:

PAGE 3 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB-22
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/15/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/18/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	0									
0 - 2'	1									
2 - 4'	2									
	3									
4 - 6'	4									
	5									
6 - 8'	6									
	7									
8 - 10'	8	8	No			Cobbles and frag	13:30	10/15/1999		
		18	Rec							
	9	22								
		24								
10 - 12'	10	12	13.5		SW	Pale bn cf SAND, little mf GRAVEL,	13:38	10/15/1999		
		37				trace c Gravel, loose, dry				
	11	18								
		20								
12 - 14"	12	3	8"		SW	Same as above except trace Cobble	13:48	10/15/1999		
		9				frag				
	13	16								
		15								
14 - 16"	14	4	12"		SW	0 - 9" Pale bn cf SAND and f GRAVEL,	10:51	04/14/1999		
		8				some m Gravel, trace C Gravel and				
	15	7				Cobble frag, v. loose, moist				
		6			GP	9 - 10" Reddish bn to black mf GRAVEL				
16 - 18"	16	4	12"		SW	0-2" Pale bn cf SAND, trace f Gravel	14:06	10/15/1999		
		5			GP	2 - 5.5" dk bn mf GRAVEL, some cf				gravels stained
	17	6				sand loose, moist				
		7			SW	5.5-12" pale bn to tan cf SAND, trace				
						mf Gravel				
18 - 20"	18	4	8.5"		SP	Pale bn vc-c SAND and f GRAVEL	11:05	10/15/1999		
		6				grading to c SAND, some mf Sand,				
	19	8				little f Gravel, trace silt, loose to semi				
		16				dense, dry				
	20									

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 22
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/15/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/18/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	20									
20 - 22'		6,6,	14.5"		SP	Pale bn c SAND, little f Gravel,	14:29	10/15/1999		
	21	10,10				trace c Gravel, loose, semi-moist				
22 - 24'	22	5	10.25"		SW	Pale bn vc-c SAND, some mf sand,	14:38	10/15/1999		
		9				little cf Gravel, loose, dry				
	23	11								
		10								
24 - 26'	24	5	11.75"		SW	same as above except grading to	14:49	10/15/1999		
		7				cf SAND, trace mf Gravel, loose, dry				
	25	6								
		6								
26 - 28'	26	5	14"		SW	0 - 4" Pale bn vc-c SAND, some mf	14:57	10/15/1999		
		7				Sand and f Gravel, little m Gravel, loose				
	27	7			SW	4 - 14" Pale bn to tan cf SAND, trace f				
		7				Gravel, loose, dry				
28 - 30'	28	13	14"		SW	Pale bn cf SAND, little f Gravel, trace	8:36	10/18/1999		collect samples:
Repeat		20				Silt, semi dense, dry				SB22-30-1099
	29	15								SB22-30MS/MSD
		19								
30 - 32'	30	4	14.75"		SW	Same as above	8:55	10/18/1999		
		6								
	31	10								
		16								
32-34'	32	12	15"		SW	Orange lt bn cf SAND, little f Gravel,	9:25	10/18/1999		
		16				semi dense				
	33	14								
		18								
34-36'	34	7	16.25"		SW	0 - 9" Orange lt bn cf SAND, trace Silt	9:38	10/18/1999		
		14				and mf Gravels				
	35	15			SW	9 - 16.25" Pale bn cf SAND, little f Gravel				
		19				and Silt, dense, dry				
36 - 38"	36	9	16"		SP	0 - 4" Pale bn and dk bn vc-c SAND,	9:50	10/18/1999		
		8				some f Gravel, trace mf Sand, moist				
	37	11			SW	4 - 16" Pale bn cf SAND, little f Gravel,				
		12				trace Silt, loose, moist				
38 - 40'	38	10	6.5"			Same as above 4 - 16" interval	10:04	10/18/1999		
		12								
	39	8								
		21								
	40									

NOTES:

PAGE 2 OF 3

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 22
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/15/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/18/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	6	17"		SP	Tan to Pale bn C SAND, little f Sand, dry	10:12	10/18/1999		collect sample: SB22-40-1099
		10								
	41	12								
		10								
42 - 44'	42	8	12.5"		SP	Same as above	10:18	10/18/1999		
		12								
	43	16								
		18								
44 - 46'	44	8	14.75"		SP	Same as above	10:29	10/18/1999		
		11								
	45	15								
		16								
46 - 48'	46	13	10"		SP	0 - 6.5" Same as above	10:42	10/18/1999		
		19			SM	6.5 - 7.75" Tan cf SAND, some Silt,				
	47	22				loose, moist				
		22			SW	7.75 - 10" Tan c SAND, little m Sand				
48 - 50'	48	11	14"		SW	Tan c SAND, little m Sand, trace	10:57	10/18/1999		collect sample: SB22-50-1099
		11			SM	f Sand grading to lt bn c SAND, some				
	49	10				clayey Silt.				
		12								
50 - 52'	50	6	16"		SP-SM	Pale bn vc-c SAND AND f GRAVEL,	11:12	10/18/1999		
		7				trace f Sand and lt gray silty Clay				
	51	8				laminations				
		9								
52 - 54'	52	7	11.25"			0 - 7.5" Same as above	11:22	10/18/1999		
		11			SW	7.5 - 11.25" Tan cf SAND, trace silt,				
	53	14				moist				
		19								
54 - 56'	54	11	12.25"		SP	0 - 8.5" Pale bn vc-c SAND AND f	11:40	10/18/1999		
		19				GRAVEL, trace mf Sand and silt, wet				
	55	18			SM	8.5 - 10" Red bn c SAND, little clayey				
		17				Silt, wet				
	56					10 - 12" Pale bn cf SAND AND f GRAVEL, trace clayey Silt, wet				
	57									
	58									
	59									
	60									

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 23

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/20/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/21/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

F10 Failing with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
0 - 2'	1								
2 - 4'	2 3								
4 - 6'	4 5								
6 - 8'	6 7								
8 - 10'	8 9	4 16 18 20	9.5"	SW	Bn to blk fill material, slight plasticity grading to pale bn cf SAND and cobble frag, moist	9:17	10/20/1999	0	
10 - 12'	10 11	7 10 6 10	11"	SP	Pale bn cf SAND, little mf Gravel, loose dry	9:41	10/20/1999	0	collect sample: SB23-10-1099
12 - 14"	12 13	7 6 11 10	7"	SW	Same as above interval	9:52	10/20/1999		
14 - 16" Repeat	14 15	4 9 8 11	11.5"	SW GW	Pale bn cf SAND and f GRAVEL, some m Gravel, trace c Gravel and cobble frag, v loose, moist	10:05	10/20/1999		
16 - 18"	16 17	12 11 10 13	15"	SW	Pale bn to tan c SAND, some mf Sand and gravel, trace c Gravel and cobble frag, loose, dry	10:48	10/20/1999		
18 - 20" SB23 - 20	18 19 20	6 9 17 19	13"	SW	Pale bn cf SAND, little mf Gravel, trace mc Gravel and cobble frag, semi-loose, dry	10:54	10/19/1999	0	collect sample: SB23-20-1099

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB-23
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/20/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/21/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	20								
20 - 22'		5, 8,	10.5"	SP	Pale bn to tan c SAND and mf GRAVEL	11:15	10/20/1999		
Repeat	21	5, 6		GW	some m Sand, little f Sand, trace c				
					Gravel, v loose, dry				
22 - 24'	22	7	No		Cobble frag in spoon	11:21	10/20/1999		
		9	Rec						
	23	12							
		10							
24 - 26'	24	3	12.25"	SW	Orange lt bn grading to pale bn cf	11:28	10/20/1999		
		4			SAND, trace f Gravel, loose, dry				
	25	7							
		8							
26 - 28'	26	8	16"	SW	*Same as above except grading to tan*	11:43	10/20/1999		
		8			mf SAND, little c Sand, trace silt				
	27	9							
		13							
28 - 30'	28	11	19"	SW	0 - 8" Lt bn cf SAND, some mf Gravel,	13:14	10/20/1999	0	collect sample:
		10			little Silt				**SB23-30-1099**
	29	12		SP	8 - 11.5" Mixed tan and lt bn c SAND,				
		12			and f GRAVEL, little m Sand,				
				SP	11.5 - 19" Orange lt bn cf SAND, trace				
					clayey Silt				
30 - 32"	30	7	13"	SW	Orange lt bn cf SAND, little f Gravel	13:22	10/20/1999		
		10			trace Silt, moist, semi-loose.				
	31	11							
		14							
32 - 34"	32	5	18"		0 - 9" same as above except all wet	13:38	10/20/1999		
		8		ML-CL	9 - 18" Lt gray SILT AND CLAY, stiff				
	33	10			med plasticity				
		9							
34 -36'	34	9	11"	SM	0 - 3.5" Orange lt bn f SAND and	13:46	10/20/1999		
		6			SILT				
	35	13		SM	3.5 - 11" Lt bn grading to tan f SAND,				
		13		ML	little clayey Silt, trace mc Sand				
36 - 38'	36	6	10"	SP	Pale bn grading to tan mf SAND, little	13:54	10/20/1999		
		8			c Sand, trace f gravels, dense dry.				
	37	11							
		10							
38 - 40'	38	7	9.75"	SP	Same as above	14:00	10/20/1999		
		11							
	39	9							
		15							
	40								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 23
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/20/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/21/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
F10 Falling with 190 lb downhole hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	40								
40 - 42'		7, 10	13"	SP	Same as above	14:10	10/20/1999		
SB23 - 40	41	11, 6							
42 - 44'	42	6	10"	SP	Same as above	14:16	10/20/1999		
		8							
	43	11							
		13							
44 - 46'	44	8	10"	SP	Tan and white laminations of c SAND,	14:28	10/20/1999		
		10			trace mf Sand, loose dry.				
	45	13							
		15							
46 - 48'	46	12	12"	SW	0 - 8.5" Tan c SAND, some m Sand	14:37	10/20/1999		
		23			little f Sand, loose moist				
	47	26		SP	8.5 - 12" Orange lt bn mc SAND, little				
		28			f Sand, trace clayey Silt.				
48 - 50'	48	17	12"	SP	Lt bn grading to dk bn vc - c SAND AND	14:50	10/20/1999	0	
		15			f GRAVEL, little mf Sand, trace Silt,				
	49	10			moist to wet.				
		14							
50 - 52'	50	8	11"	SP	0 - 4.75" lt bn vc-c SAND and f	15:03	10/20/1999	0	collect sample:
		11			GRAVEL, little mf Sand, trace Clayey Silt				SB23-50-1099
	51	14		ML-CL	4.75 - 7" Lt gray SILT and CLAY, moist				
		14		SP	7" - 11" same as 48 - 50' interval				
52 - 54'	52	5	13.5"	SW	Pale bn to tan cf SAND, trace micas,	8:22	10/21/1999		
		10			semi-loose, moist				
	53	12							
		15							
54 - 56'	54		15"	SP	Pink to pale bn vc -c SAND and f	8:26	10/21/1999		
					Gravel, little Silt, trace f Sand,				
	55				semi loose, wet				
	56								
	57								
	58								
	59								
	60								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 24
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 09/29/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 09/29/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	0									
	1									
2 - 4'	2									
	3									
4 - 6'	4									
	5									
6 - 8'	6									
	7									
8 - 10'	8									
	9									
10 - 12'	10									
	11									
12 - 14"	12									
	13									
14 - 16"	14					Blk and bn cf SAND and Gravel, trace clay moist, stained blk			2,923	collect sample: SB24-14-0999 from drill cuttings, strong odor
	15									
16 - 18"	16									
	17									
18 - 20"	18	3	15.5"		SW	0 - 8" Lt bn cf SAND, some Silt, little cf Gravel, loose, wet	9:15	09/29/1999	91	
	19	3								
		6			SP	8 - 15.5" Tan vc-c SAND, little m Sand, trace f Sand and c Gravel,				
	20	11				loose, dry to moist				

NOTES: All PID readings obtained from headspace jars containing soils from designated intervals

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 24
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/29/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/29/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	8	12.5"		SP	Tan vc-c SAND, trace f Sand, some mf Gravel, trace c Gravel, loose, dry	9:28	09/29/1999	84.7	collect sample: SB24-20-0999
		11								
	21	15								
		17								
22 - 24'	22	12	16"		SW	Lt bn to Tan vc-c SAND, little m Sand and mf Gravel, trace c Gravel and Cobble frag, semi loose, dry	9:37	09/29/1999		
		12								
	23	14								
		16								
24 - 26'	24	8	12.5"		SW	Tan cf SAND, little mf Gravel, trace c Gravel loose, dry	9:48	09/29/1999		
		12								
	25	17								
		17								
26 - 28'	26	5	18"		SW	Tan cf SAND, trace mf Gravel, loose, dry,	9:59	09/29/1999		
		13								
	27	15								
		17								
28 - 30'	28	8	16"			Same as above	10:05	09/29/1999		
		8								
	29	14								
		19								
30 - 32'	30	13	11.5"		SW	Lt bn cf SAND, little mf Gravel grading to tan c SAND and f Gravel, little trace silt, semi loose, dry	10:20	09/29/1999	0	collect sample: SB24-30-0999
		14								
	31	11								
		14								
32 - 34'	32	8	14"		SW	0 - 12" Orange bn cf SAND, little f Gravel	10:33	09/29/1999		medium odor
		44			SM	grading to lt bn cf Sand and Silt, trace				
	33	40				f Gravel, all moist,				
		49			ML	12 - 14" Lt gray clayey SILT, dry and				
						crumbly, odor throughout				
34 - 36'	34	43	19.5"		CL	0 -4" Lt gray CLAY AND SILT, v dense, wet	10:47	09/29/1999		
		79			SW	4 - 11.5" Tan cf Sand, little Silt grading to				
	35	38			SM	Orange bn mf SAND, some Silt, little c				
		59				Sand, trace f Gravel, v dense, dry				
					SM	11.5-13.5" Tan f SAND and SILT,				
					SM	13.5-19.5" Orange lt bn mf SAND,				
						some Silt, little c Sand, dense, dry				
36 - 38'	36	13	18.5"		CL	0 -3.5" Lt gray to lt bn CLAY and SILT,	11:00	09/29/1999		
		24				med stiff.				
	37	27			ML	3.5 - 18.5" Tan mf SAND, some Silt				
		35				little c Sand, loose dry.				
38 - 40'	38	11	17"		SP	Tan and white layers of c SAND, little m	11:20	09/29/1999		
		17				Sand, trace f Gravel, v dense, dry				
	39	19								
		25								

NOTES: All PID readings obtained from headspace jars containing soils from designated intervals

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 24
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/29/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/29/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strabel,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
40 - 42'	40	7	18"		SM	Tan mf SAND, some c Sand, little Silt,	11:38	09/29/1999	0	collect sample:
		18			SP	grading to pinkish tan c SAND,				SB24-40-0999
	41	18				little mf Sand, loose, dry				
		23								
42 - 44'	42	7	14.5"		SM	0 - 7" Lt bn and gray mf SAND, some	11:46	09/29/1999		
		9				clayey Silt and f Gravels,				
	43	5			CL	7 - 14.5" Gray silty CLAY, soft				
		9								
44 - 46'	44	3	21.5"		CL	Lt gray to dark gray CLAY and SILT, trace	11:59	09/29/1999		
		6			SM	f Sand laminations, soft, med plasticity				
	45	4								
		9								
46 - 48'	46	3	21"		CL	Lt gray silty CLAY, soft to med stiff.	12:40	09/29/1999		
		5								
	47	6								
		9								
48 - 50'	48	5	21"			*Same as above*	13:00	09/29/1999		collect sample:
		7								SB24-50-0999
	49	8								
		15								
50 - 52'	50	5	22.5"		CL	0 - 2.25" Lt gray CLAY and SILT	13:20	09/29/1999		
		9			ML	2.25 - 22.5" Lt gray clayey SILT, trace				
	51	7				f Sand				
		14								
52 - 54'	52	9	14"		CL-ML	0 - 4" Lt gray CLAY and SILT, soft	13:32	09/29/1999		
		13			SW-SM	4 - 10" Red c SAND, some mf Sand, little				
	53	9				Silt grading to orange lt bn cf Sand,				
		6				some Silt, trace f Gravel				
54 - 56'	54	7	13.5"		SM	Red lt bn f SAND, some clayey SILT	13:41	09/29/1999		
		8				trace f Gravels, loose, wet at 4"				
	55	9								
		11								
56-58'	56	4	16"		SM	Tan c SAND, little mf Sand, trace clayey	13:59	09/29/1999		
		10				Silt, all wet				
	57	16								
		18								

NOTES: All PID readings obtained from headspace jars containing soils from designated intervals

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB - 25
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/01/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/04/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: M. Pelligrino,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F7 Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet) 0	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
0 - 2'	1									
2 - 4'	2 3									
4 - 6'	4 5									
6 - 8'	6 7									
8 - 10'	8 9	6 7 16 21	12.25"		SM-ML SP-SM	0 - 9.75" Lt bn c SAND and clayey SILT grading to dk gray clayey Silt. 9.75 - 12.25" Orange lt bn vc-c SAND, some f Gravel and Silt, semi dense, moist	13:00	10/01/1999		
10 - 12'	10 11	12 16 18 19	10"		SW	Orange lt bn cf SAND, little mf Gravel trace c Gravel and cobble frag, semi dense, moist	13:10	10/01/1999	0	collect sample: SB25-10-1099
12 - 14"	12 13	4 8 8 9	6"			Same as above	13:20	10/01/1999		
14 - 16"	14 15	8 9 9 10	No Rec			Fractured cobble in spoon tip	13:28	10/01/1999		
16 - 18"	16 17	6 9 9 11	11'		SP	Orange lt bn vc-c SAND, some mf Gravel, little mf Sand, trace cobble frag, loose, moist	13:36	10/01/1999		
18 - 20"	18 19 20	8 10 12 14	13"		SW	Orange lt bn vc-c SAND, some mf Sand, little mf Gravel, grading to cf Sand little cf gravel, loose, dry	13:42	10/01/1999		collect sample: SB26-20-1099

NOTES: All PID readings obtained from headspace jars containing soils from designated intervals

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 25
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/01/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/04/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: M. Pellignino,P. Tremblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F7 Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
20 - 22'	20	8	9.25"		SW	Orange lt bn cf SAND, little cf Gravel	13:54	10/01/1999	17.5	
		9				trace cobble frag, loose, dry				
	21	10								
		9								
22 - 24'	22	7	12.5"		SW	0 - 7" Yellowish orange vc-c SAND and	14:01	10/01/1999	25.6	
		9				mf GRAVEL, little m Sand, loose, dry				
	23	9			SW	7 - 12.5" Yellowish orange to tan cf SAND				
		10				trace mf Gravel, v. loose, dry				
24 - 26'	24	8	11.5"			Same as above 7-12.5" interval	14:12	10/01/1999	147	
		8								
	25	10								
		11								
26 - 28'	26	12	13.5"		SP	Tan mf SAND, loose, dry	14:22	10/01/1999		
		16								
	27	18								
		18								
28 - 30'	28	8	16'		SW	Tan c SAND, some m sand, trace f sand	14;30	10/01/1999		collect sample:
		8				and micas, loose, dry sp				SB26-30-1099
	29	9								
		12								
30 - 32'	30	8	12"		SW	0 - 5.5" same as above	14:36	10/01/1999	101	
		9			SP	5.5 - 12" Tan c SAND w/ red and black				
	31	10				grains and f GRAVEL, little m Gravel, trace				
		12				Silt, loose, dry				
32 - 34'	32	18	20"		ML	Olive yellow SILT and f Sand grading to	14:48	10/01/1999		
		21				clayey SILT and f sand, non to slight				
	33	39				plasticity, very stiff to hard, brittle, dry				
		41								
34 - 36'	34	54	13.5"		SP	0 - 8" Lt bn cf SAND and f GRAVEL, some	7:55	10/04/1999	42.1	
		?				mf gravel (red to black staining), trace				
	35	33				Silt, v dense, grading to tan cf SAND,				
		36				some mf Gravel, dense, dry				
					SP	8 - 13.5" Tan to white m SAND, trace cf				
						Sand, dense, dry				
36 - 38'	36	15	16"		SW	White c SAND, little m sand, trace f sand	8:11	10/04/1999	74.2	
		22				and micas grading to yellowish tan c				
	37	32				SAND, little m sand, trace f sand, semi				
		33				dense , dry				
38 - 40'	38	17	16.5"		SW	White to tan c SAND, little m Sand	8:22	10/04/1999	18.2	collect sample:
		23				trace f Sand and clayey SILT, loose				SB26-40-1099
	39	29				to semi dense, dry				
		31								

NOTES: All PID readings obtained from headspace jars containing soils from designated intervals

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 25
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 10/01/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 10/04/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: M. Pelligrino,P. Tramblay/Delta Well & Pump
ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F7 Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	PID ppm	COMMENTS
40 - 42'	40	11	18.5"		SW	Same as above, clayey SILT stiff at	8:33	10/04/1999	0	
		18				2 - 5"				
	41	22								
		24								
42 - 44'	42	12	16.75"			0 - 1.75" Pale bn cf SAND, little Silt, loose	8:53	10/04/1999	0	
		17			SW	1.75 - 16.75" White grading to				
	43	21				reddish bn c SAND, some m Sand,				
		18				trace f Sand & Silt, loose, dry				
44 - 46'	44	8	20.75"		SW	0 - 2.5" Reddish bn c SAND, some m	9:08	10/04/1999	27.8	
		6				sand, trace f Sand and Silt, loose, dry				
	45	7			ML	2.5 - 8" Lt gray clayey SILT, little red to bn				
		9				f sand.				
					ML-CL	8 - 20.75" Lt gray CLAY and SILT,				
						little red bn f Sand, med stiff, dry				
46 - 48'	46	4	21"		ML	0 - 14" Lt gray silty CLAY	9:48	10/04/1999	355	
		5			ML-SM	14 - 18" Lt gray to pale bn clayey SILT				
	47	10				little f Sand, trace m Sand, loose, dry				
		12			ML	18 - 21" Lt gray clayey SILT grading to clay				
						and silt, med soft, dry				
48 - 50'	48	6	11.5"		ML-CL	Lt gray SILT and CLAY, trace f Sand, med	10:59	10/04/1999		collect sample:
		5				soft, dry inside wet outside and top of				SB26-50-1099
	49	7				spoon				
		12								
50 - 52'	50	5				Same as above	11:10	10/04/1999	273	
		6								
	51	8								
		10								
52 - 54'	52	10	14'		CL-ML	Lt gray CLAY and SILT grading to pale brown	11:22	10/04/1999	218	
		9				clayey SILT				
	53	17								
		24								
54 - 56'	54	14	14.25"		ML	lt gray clayey SILT grading to pinkish gray-	11:49	10/04/1999		
		18			SW	mf SAND and f Gravel, some c Sand, dense,				
	55	28				wet from 55' bgs				
		33								
	56									
	57									

NOTES: All PID readings obtained from headspace jars containing soils from designated intervals

LOG OF BORING

PROJECT: Bethpage NWIRP
BORING NUMBER: SB - 26
PROJECT NO: 1284.B004.0205.00000
DATE STARTED: 09/30/1999
LOCATION: Bethpage, New York
DATE COMPLETED: 09/30/1999
GEOLOGIST: Andrew Prophete
GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
GROUND SURFACE ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F7 Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	0									
0 - 2'	1									
2 - 4'	2									
	3									
4 - 6'	4									
	5									
6 - 8'	6									
	7									
8 - 10'	8	24	14"		SP	0 - 2" Lt bn c SAND and f GRAVEL,	9:30	09/30/1999		
		22				semi dense, moist				
	9	26				2 - 14" Orange bn c SAND, some mf Sand,				
		30				little fc Gravel, dry				
10 - 12'	10	13	14"		SW	Orange lt bn to pale bn vc-f SAND,	9:33	09/30/1999		collect sample:
		19				little cf Gravel, trace Cobble frag, semi-				SB26-10-0999
	11	23				dense, dry				
		26								
12 - 14"	12	7	No			Cobble frag in tip of spoon	9:40	09/30/1999		
		12	Rec							
	13	15								
		18								
14 - 16"	14	13	12"		SW	Orange lt bn to pale bn vc-c SAND,	9:49	09/30/1999		
		10				little mf Sand and mf Gravel,				
	15	12				trace cobble frag, loose, dry				
		14								
16 - 18"	16	10	10.5"			Same as above	10:04	09/30/1999		
		13								
	17	15								
		11								
18 - 20"	18	6	13.5"		SP	Lt bn vc-c SAND, some f Gravel, little mf sand	10:12	09/30/1999		SB26-20-0999
		7				loose, dry				
	19	11								
		15								
	20									

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
PROJECT NO: 1284.B004.0205.00000
LOCATION: Bethpage, New York
GEOLOGIST: Andrew Prophete
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F7 Drill Rig with 140 lb hammer

BORING NUMBER: SB - 26
DATE STARTED: 09/30/1999
DATE COMPLETED: 09/30/1999
GROUNDWATER DEPTH:
ELEVATION:

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
20 - 22'	20	18	8"		SP	0 - 2.5" Orange lt bn vc-c SAND,	10:16	09/30/1999		
		20				little mf Gravels, trace f Sand and				
	21	14				m Gravels,dry				
		16				2.5 - 8" Fractured cobble, gneissic banding				
22 - 24'	22	10	11"		SP	Yellowish orange to tan vc-c SAND,	10:24	09/30/1999		
		11				little m Sand and mf Gravels,				
	23	10				loose, dry				
		10								
24 - 26'	24	23	10"		SP	0-4.75" Orange lt bn vc-c sand, little	10:38	09/30/1999		
		25				m Sand and mf Gravels, trace f Sand,dry				
	25	23				4.75 - 6.75 Cobble frag (gneissic banding)				
		22			SW	6.75 - 10" Tan cf SAND, semidense, dry				
26 - 28'	26	11	No				10:48	09/30/1999		
		11	Rec							
	27	12								
		13								
28 - 30'	28	4	12"		SW	Tan cf SAND grading to orange lt bn	10:52	09/30/1999		collect sample:
		7				vcf SAND, some f Gravel, iron oxide staining				SB26-30-0999
	29	7				throughout.				
		11								
30 - 32'	30	12	16'		SW	0 - 3.5" Orange lt brown cf SAND, little	11:20	09/30/1999		
		13				Silt, trace f Gravel, loose,				
	31	12			SP	3.5 - 16" Tan c SAND, little mf Sand,				
		21				trace Gravel, loose, dry				
32 - 34'	32	4	17.25"		SP	0 - 1.25" Red bn cf SAND, little Silt, loose	11:32	09/30/1999		
		8				1.25 - 12" Tan mc SAND, some f Sand and				
	33	11			SP	Silt loose, dry				
		22				12 - 17.25" Tan mf SAND and SILT, trace				
					SM	c Sand, dry				
34 - 36'	34	27	17"		SP	0 - 8" Orange lt bn to tan cf SAND, dense	11:59	09/30/1999		
		34			SP-SM	8-17" Tan to white mf sand, trace C Sand				
	35	39				and Silt, dense. Silty Clay lense (1/2") at				
		47				14".				
36 - 38'	36	15	15.5"		SW	0 - 6" Lt bn cf SAND, trace f Gravel,	12:48	09/30/1999		
		20				6 - 15.5" White mf SAND, trace c Sand				
	37	17				and Silt, grading diagonally into lt bn cf				
		24				Sand, semi dense				
38 - 40'	38	16	14.5"		SW	0 - 4" Lt bn cf SAND, semi dense	13:11	09/30/1999		collect sample:
		23			SP	4 - 14.5" White mf SAND, trace c Sand and				SB26-40-0999
	39	27				Silt, dense grading to tan mf SAND,				
		28				trace c Sand and clayey Silt, dense, dry				

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
PROJECT NO: 1284.B004.0205.00000
LOCATION: Bethpage, New York
GEOLOGIST: Andrew Prophete
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F7 Drill Rig with 140 lb hammer

BORING NUMBER: SB - 26
DATE STARTED: 09/30/1999
DATE COMPLETED: 09/30/1999
GROUNDWATER DEPTH:
ELEVATION:

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	18	19"			0 - 2" same as above 4 - 14.5" interval	13:20	09/30/1999		
		25			SP-SW	2 - 14" Tan mf SAND grading into pinkish				
	41	20				tan cf Sand, some Silt,				
		21			SP	14-19" Tan to lt bn mf SAND, little c Sand				
						trace Silt, semi dense, dry				
42 - 44'	42	10	17.25"			0 - 1" Tan to white mf SAND, trace c Sand	13:29	09/30/1999		
		18				and clayey Silt, loose, dry				
	43	14			SP-SC	1 - 3" Tan c SAND AND f GRAVELS, some				
						clayey Silt				
		13			SP	3 - 17.25" Lt gray to bn f SAND laminations,				
						little Silt, trace mc Sand, semi loose.				
						Lt gray Silt and Clay lense from 8 - 9.25"				
44 - 46'	44	5	16.5"		SP	0 - 6" same as above 3 -17.25" w/out clay	13:34	09/30/1999		
		7			CL	6 - 16.5" Lt gray CLAY and SILT, soft,				
	45	4				medium plasticity				
		5								
46 - 48'	46	5	16"		CL	Lt gray CLAY and SILT w/dark gray f Sand	13:48	09/30/1999		
		6				laminations, wet				
	47	6								
		8								
48 - 50'	48	2	21"		CL-SM	Same as above except little sand laminations	14:00	09/30/1999		collect sample:
		5				Wet on outside of spoon and within sand				SB26-50-0999
	49	7								
		5								
50 - 52'	50	7	13.5"		CL	0 - 6.5" Lt gray SILT and CLAY, v. soft	14:15	09/30/1999		
		12			ML-SM	6.5 - 9.5" Orange lt bn SILT, little f Sand,				
	51	10				trace f Gravel and Clay, soft,				
		16			SM	9.5 - 13.5" Pink tan f SAND, some Silt, loose				
52 - 54'	52	15	8.5"		SP	Tan cm SAND, trace f Sand and	14:30	09/30/1999		
		25				clayey Silt, dense,				
	53	26								
		28								
54 - 56'	54	18	14.5"		SP	0 - 4" Pink to lt gray mf SAND, little clayey Silt,	14:50	09/30/1999		
		20				trace c Sand, loose, wet				
	55	20				4 - 14.5" Orange bn c SAND, little mf Sand ,				
		24				and Silt, semi dense, wet				
	56									

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER: SB-27

PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/05/1999

LOCATION: Bethpage, New York — DATE COMPLETED: 10/05/1999

GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:

DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — GROUND SURFACE ELEVATION:

DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'

Failing F7 Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY (feet)	PROFILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
	0									
0 - 2'	1									
2 - 4'	2									
	3									
4 - 6'	4									
	5									
6 - 8'	6									
	7									
8 - 10'	8	16	12"		SP	Orange lt brown vc-c SAND, some f Gravel and Silt, semi dense, moist	8:08	10/05/1999	0	collect sample: SB27-10-1099
	9	16 14 14								
10 - 12'	10	8	10.5"		SW	Orange lt brown cf SAND, little mf Gravel trace c Gravel and Cobble frag, semi dense, moist	8:20	10/05/1999		
	11	10 14 18								
12 - 14"	12	25	13.5"			Same as above except grading to cf white Sand, trace mf Gravel, loose	8:31	10/05/1999		
	13	14 13 16								
14 - 16"	14	7	11.5"		SP	Pale brown vc-c SAND, some mf Gravel little mf Sand, trace c Gravel and Cobble frag, loose, moist	8:39	10/05/1999		
	15	11 11 15								
16 - 18"	16	11			SW	Pale brown cf SAND, some mf Gravel grading to tan vc-c SAND, some mf Sand, little f Gravel, loose, dry	8:52	10/05/1999		
	17	14 17 22								
18 - 20"	18	12	No Rec			Cobble frag in spoon tip	9:04	10/05/1999		
	19	23 25 26								
	20									

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP
PROJECT NO: 1284.B004.0205.00000
LOCATION: Bethpage, New York
GEOLOGIST: Andrew Prophete
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F7 Drill Rig with 140 lb hammer

BORING NUMBER: SB - 27
DATE STARTED: 10/05/1999
DATE COMPLETED: 10/05/1999
GROUNDWATER DEPTH:
ELEVATION:

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
20 - 22'	20	13	9"		SW	Orange pale brown cf SAND, little cf Gravel, loose, dry	9:13	10/05/1999	0	collect sample: SB27-20-1099
		18								
	21	24								
		29								
22 - 24'	22	21	15"		SP	Yellowish orange vc-c SAND AND mf GRAVEL, dense, dry	9:22	10/05/1999		
		27								
	23	26								
		22								
24 - 26'	24	12	11.5"		SW	Tan cf SAND, little mf Gravel, loose, dry	9:29	10/05/1999		
		18								
	25	17								
		20								
26 - 28'	26	22	12"			Same as above except trace gravel	9:48	10/05/1999		
		23								
	27	19								
		25								
28 - 30'	28	14	12.5"		SW	Orange lt brown cf SAND, trace mf gravel, semi dense, dry	10:00	10/05/1999		collect sample: SB27-30-1099
		19								
	29	26								
		30								
30 - 32'	30	10	13.25"		SP	Tan c SAND w/ red and black grains and f GRAVEL, little mf Sand, trace Silt loose, dry	10:15	10/05/1999		
		19								
	31	21								
		32								
32 - 34'	32	28	19.25"		SM	0-9.25" Olive yellow SILT, trace f Sand grading to brownish yellow Silt, some f Sand, v dense, dry	10:40	10/05/1999		
		58								
	33	124								
		101			SW	9.25 - 19.25" Pale bn cf SAND, some mf Gravel, little Silt, v dense, dry				
34 - 36'	34	44	17"		SW	0-10.25" lt brown to orange lt brown cf SAND and f GRAVEL, some f gravel (red to black staining), trace Silt, v dense, grading to tan cf SAND, some mf Gravel v dense, dry	11:00	10/05/1999		
		57								
	35	39								
		32								
					SP	10.25 - 17" Tan m SAND, trace cf Sand				
36 - 38'	36	7	16"		SP	White m SAND, little f Sand, trace c SAND and micas grading to yellowish tan c SAND, semi dense, dry	11:18	10/05/1999		
		14								
	37	16								
		19								
38 - 40'	38	13	15.5"		SP	White mc SAND, little f Sand, semi-loose loose	11:40	10/05/1999		
		18								
	39	20								
		14								

NOTES:

LOG OF BORING

PROJECT: Bethpage NWIRP — BORING NUMBER:SB - 27
PROJECT NO: 1284.B004.0205.00000 — DATE STARTED: 10/05/1999
LOCATION: Bethpage, New York — DATE COMPLETED: 10/05/1999
GEOLOGIST: Andrew Prophete — GROUNDWATER DEPTH:
DRILLER: C. Strebel,P. Tremblay/Delta Well & Pump — ELEVATION:
DRILLING/SAMPLING METHOD: 3.25 " HSA s.s at 2 ' intervals to 56'
Failing F7 Drill Rig with 140 lb hammer

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECO-VERY (feet)	PRO-FILE	USCS CLASS.	MATERIAL DESCRIPTION	COLLECTION Time	COLLECTION Date	OVA ppm	COMMENTS
40 - 42'	40	8	14"			0 - 10" same as above	11:55	10/05/1999		
		12			SM-CL	10 - 14" Lt bn to grayish tan clayey SILT				
	41	14				and f SAND, little mc Sand, moist to wet, soft				
		8								
42 - 44'	42	7	17.5"		CL-SC	Lt gray CLAY AND SILT, little f Sand, med-	12;40	10/05/1999		
		9				stiff to stiff				
	43	8								
		8								
44 - 46'	44	3	22.5"		CL-SC	Same as above	13:13	10/05/1999		
		4								
	45	7								
		10								
46 - 48'	46	4	18.5"		SC	Lt gray f SAND AND CLAY with bn to blk	13:24	10/05/1999		
		9				clayey Silt laminations				
	47	11								
		13								
48 - 50'	48	4	20.5"		CL	0-9.5" Lt gray CLAY and SILT, trace f sand,	13:33	10/05/1999		
		17				med stiff, dry inside, moist to wet outside				
	49	22			SP	9.5-20.5" White c SAND grading				
		29				through pinkish c SAND, trace mf sand				
						loose, dry,				
50 - 52'	50	7	15.75"		SP	Lt Gray to white c SAND, trace mf Sand	13:45	10/05/1999		collect sample:
		19				and Silt, loose dry				SB27-50-1099
	51	27								
		33								
52 - 54'	52	19	15"		SP-CL	0 - 2" Pink c SAND, some Silt and Clay,	14:02	10/05/1999		
		20				trace mf Sand, semi loose, dry				
	53	20			SP	2 - 15" Orange lt brown c SAND, trace mf				
		17				Sand semi loose, moist				
54 - 56'	54	8	12"		SP	0 - 5.5" Orange lt brown c SAND, trace mf	14:15	10/05/1999		
		8				Sand grading to clayey Silt and f Sand.				
	55	11				5 -12" Tan to pale brown cf SAND, little				
		14				Silt grading to cm Sand and f Gravel,				
	56					little f Sand, wet at 5" = 54 - 55 ft				

NOTES:

PAGE 3 OF 3

APPENDIX B

CHAIN OF CUSTODY FORMS

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-09-144

DUE DATE : 9-23-99

Fedex # 813529650657

COMPANY: Foster Wheeler Environmental Corp
ADDRESS: 8 Peach Tree Hill Road
Livingston, NJ 07039
PHONE #: (973) 597-7440 FAX #: (973) 597-7591
P.O. #: 1284.B004.0205.00000
PROJECT MANAGER: Marlene-Lindhardt
PROJECT ID/LOCATION: NWIRP-Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENT
(1)	SB01-20-0999	2		G	2	9/9/99	1038	none	X	X	X	X	X	
(2)	SB01-30-0999	2		G	2	9/9/99	1255	none	X	X	X	X	X	
(3)	SB01-40-0999	2		G	1	9/9/99	1515	none	X					Portion of sam Remainder to be

SAMPLED BY: Archer Proffitt
DATE: 9 - 9 - 99
TIME: 16 - 10 - 00

QUOTATION #:

RELINQUISHED BY:
DATE: - -
TIME: -

RECEIVED BY:
DATE: - -
TIME: -

RELINQUISHED BY: FED-EX
DATE: 9 - 10 - 99
TIME: 09 - 00 -

RECEIVED FOR LAB BY: D. Mahr
DATE: 09 - 10 - 99
TIME: 09 - 00 -

METHOD OF SHIPMENT

COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7475

CHAIN OF CUSTODY RECORD

Fed Ex# 813529650646

WORK ORDER #: 99-09-172

DUE DATE : 9-24-99

COMPANY: Foster Wheeler Environmental Corp.
ADDRESS: 8 Pk. Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-413 FAX #: (973) 597 7591
P.O. #: 12834.1 204.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC	SVOC	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB01-40-0999	2		G	1	9/10/99	1100	none	X	X	X	X	X	2nd portion of sample
2	SB01-48-0999	2		G	2	9/10/99	1120	none	X	X	X	X	X	

SAMPLED BY: [signature] DATE: 9-10-99 TIME: 16-00-00
QUOTATION #:

RELINQUISHED BY: DATE: - - TIME: - -
RECEIVED BY: DATE: - - TIME: - -

RELINQUISHED BY: FED-EX DATE: 9-13-99 TIME: 10-00
RECEIVED FOR LAB BY: [signature] DATE: 09-13-99 TIME: 10-00

METHOD OF SHIPMENT: COOLER TEMPERATURE:

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-09-190
DUE DATE : 9-27-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7418 FAX #: (973) 597-7517
P.O. #: 1284.BOBA.0205.00000
PROJECT MANAGER: Marlene Lyndhardt
PROJECT ID/LOCATION: AWIRP Bethpage

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC 8260	SVOC	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENTS
(1)	SB02-20-0999	2		G	2	9/13/99	10:05	none	X	X	X	X	X	
(2)	SB02-30-0999	2		G	2	9/13	13:10	none	X	X	X	X	X	
(3)	SB02-40-0999	2		G	2	9/13	15:40	none	X	X	X	X	X	

SAMPLED BY: [signature] DATE: 9 - 13 - 99 TIME: 16 - 30 - 00
QUOTATION #:
RELINQUISHED BY: [signature] DATE: - - TIME: - -
RECEIVED BY: [signature] DATE: - - TIME: - -
RELINQUISHED BY: FED-EX DATE: 9 - 14 - 99 TIME: 9 - 00 -
RECEIVED FOR LAB BY: [signature] DATE: 09 - 14 - 99 TIME: 09 - 00 -

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

FedEx 813443088644

WORK ORDER #: 99-09-218

DUE DATE : 09-28-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7517
P.O. #: 1284.B004.0205.0000P
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC 8260	SVOC	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENTS
(1)	SB02-48-0999	2		G	2	9/14	930		X	X	X	X	X	
(2)	SB02-48D-0999	2		G	2	9/14	930		X	X	X	X	X	Duplicate

SAMPLED BY: Andrew Prophete
DATE: 9-14-99
TIME: 15-30-00
QUOTATION #:

RELINQUISHED BY:
DATE: - -
TIME: - -
RECEIVED BY:
DATE: - -
TIME: - -

RELINQUISHED BY: FED-EX
DATE: 9-15-99
TIME: 09-00
RECEIVED FOR LAB BY:
DATE: 09-15-99
TIME: 09-00

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than [illegible] above?

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-09-235

DUE DATE : 09-29-99

FEDEX # 813443088633

COMPANY: Foster Wheeler Environmental Corp
ADDRESS: 8 Peach Tree Hill Rd
Livingston, NJ. 07039
PHONE #: (973) 597-7177 FAX #: (973) 597-7517
P.O. #: 1284. B004. 0205. 00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Earthpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC 8260	SVOC 8270	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	FB-BP-011599	7		P/V G	5	9/15/99	0900	HCl/HNO3	X	X	X	X	X	Field Blank DI Water
2	SB03-20-0919	2		G	2	9/15/99	1520	—	X	X	X	X	X	

SAMPLED BY: Andrew Kolb — DATE: 9-15-99 — TIME: 16-00-00
RELINQUISHED BY: — DATE: - — TIME: -
RELINQUISHED BY: FED-EX — DATE: 9-16-99 — TIME: 09-00-
METHOD OF SHIPMENT

QUOTATION #:
RECEIVED BY: — DATE: 09-16-99 — TIME: 11-00-am
RECEIVED FOR LAB BY: — DATE: 09-16-99 — TIME: 09-00-
COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?

TOXIKON

15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-09-415

DUE DATE : 10-8-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston, NJ. 07039
PHONE #: (973) 597-7112 FAX #: (973) 597-7591
P.O. #: 1284.B004.0205.0000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC 8260	SVOC 8270	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB08-10-0999	2		G	2	9/27/99	0908	none	X	X	X	X	X	
2	SB08-20-0999	2		G	2	9/27/99	1020	—	X	X	X	X	X	
3	SB08-20-0999 MS/MSD	2		G	2	9/27/99	1020	—	X	X	X	X	X	MS/MSD
4	SB08-30-0999	2		G	2	9/27/99	1130	—	X	X	X	X	X	
5	SB08-40-0999	2		G	2	9/27/99	1315	—	X	X	X	X	X	
6	SB08-50-0999	2		G	2	9/27/99	1410	—	X	X	X	X	X	

SAMPLED BY: [signature] DATE: 09-27-99 TIME: 16-00-00

QUOTATION #:

RELINQUISHED BY: [signature] DATE: — TIME: —

RECEIVED BY: [signature] DATE: — TIME: —

RELINQUISHED BY: [signature] DATE: — TIME: —

RECEIVED FOR LAB BY: [signature] DATE: 9-28-99 TIME: 11-15-AM

METHOD OF SHIPMENT: — COOLER TEMPERATURE: —

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: ____-____-____

DUE DATE : 10-12-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peachtree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7591
P.O. #: 1284.B004.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC 8260	SVOC 8270	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENTS
	SB10-35-0999	2	8oz	G	2	9/28/99	9:35	None	X	X	X	X	X	
	SB10-24-0999	2		G	2	9/28	16:00	none	X	X	X	X	X	
	SB10-30-0999	2		G	2	9/28	10:30	none	X	X	X	X	X	
	SB10-40-0999	2		G	2	9/28	11:30	none	X	X	X	X	X	
	FB-BP-092899	7		PGV	5	9/28	12:00	HCl/HNO3	X	X	X	X	X	DI-Field Blank Water
	SB10-SD-0999	2		G	2	9/28	13:10	None	X	X	X	X	X	

SAMPLED BY: Andrew Voglet
DATE: 09 - 28 - 99
TIME: 16 - 00 - 00
QUOTATION #:

RELINQUISHED BY: DATE: - - TIME: - -
RECEIVED BY: DATE: - - TIME: - -
RELINQUISHED BY: DATE: - - TIME: - -
RECEIVED FOR LAB BY: DATE: - - TIME: - -

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?

TUXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-10-006

DUE DATE : 10.13.99

COMPANY: Foster Wheeler Environmental Corp.
ADDRESS: ~~6862 Midwood~~ & Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7591
P.O. #: 1284. B004. 0205. 00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC 8260	SVOC 8270	PCB	Pesticides	RCRA-metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB24-14-0999	2 Soil		G	2	9/29/99	9:18	none	X	X	X	X	X	
2	SB24-20-0999	2		G	2	9/29/99	9:30	None	X	X	X	X	X	
3	SB24-30-0999	2		G	2	9/29/99	10:25	none	X	X	X	X	X	
4	SB24-40-0999	2		G	2	9/29/99	11:40	None	X	X	X	X	X	
5	SB24-50-0999	2		G	2	9/29/99	13:05	None	X	X	X	X	X	

SAMPLED BY: Matthew Prophete
DATE: 09 - 29 - 99
TIME: 16 - 00 - 00

QUOTATION #:

RELINQUISHED BY:
DATE: - -
TIME: - -

RECEIVED BY:
DATE: - -
TIME: - -

RELINQUISHED BY:
DATE: - -
TIME:

RECEIVED FOR LAB BY:
DATE: 10 - 1 - 96
TIME: 9 - 45 - am

METHOD OF SHIPMENT

COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99 . 10 . 031

DUE DATE : 10 - 14 - 99

COMPANY: Foster Wheeler Environmental Corp
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7591
P.O. #: 1284.B004.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC 8260	SVOC 8270	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS COMMENT
1	SB26-10-0999	2		G	2	9/30/99	9:35		X	X	X	X	X	
2	SB26-20-0999	2		G	2	9/30	10:15		X	X	X	X	X	
3	SB26-30-0999	2		G	2	9/30	11:00		X	X	X	X	X	
4	SB26-40-0999	2		G	2	9/30	13:20		X	X	X	X	X	
5	SB26-50-0999	2		G	2	9/30	14:15		X	X	X	X	X	

SAMPLED BY: Another Project
DATE: 09 - 30 - 99
TIME: 16 - 00 - 00

RELINQUISHED BY:
DATE:
TIME:

RELINQUISHED BY:
DATE:
TIME:

METHOD OF SHIPMENT

QUOTATION #:

RECEIVED BY:
DATE:
TIME:

RECEIVED FOR LAB BY: William J. McDonald
DATE: 10 - 2 - 99
TIME: 10 - AM -

COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99.10.051

DUE DATE : 10-15-99

COMPANY: Foster Wheeler Environmental Corp.
ADDRESS: 8 Peach Tree Hill Rd.
Livingston NJ. 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7591
P.O. #: 1284.B004.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC 8260	SVOC 8270	TCL Pesticides	Metals	SPECIAL INSTRUCTION/ COMMENT
1	SB25-10-1099	2		G	2	10/1/99	1310	none	X	X	X	X	
2	SB25-20-1099	2		G	2	10/1	1350	—	X	X	X	X	
3	SB25-30-1099	2		G	2	10/1	1435	—	X	X	X	X	
—	SB25-40-1099	2		G	2	10/1		—	X	X	X	X	not included
—	SB25-50-1099	2		G	2	10/1		—	X	X	X	X	not included

SAMPLED BY: [redacted]
DATE: 10 - 01 - 99
TIME: 16 - 00 - 00
QUOTATION #:

RELINQUISHED BY: [redacted]
DATE: - -
TIME: -
RECEIVED BY: [redacted]
DATE: - -
TIME: -

RELINQUISHED BY: FED-EX
DATE: 10 - 02 - 99
TIME: 12 - 00 -
RECEIVED FOR LAB BY: [redacted]
DATE: 10 - 02 - 99
TIME: 12 - 00 -

METHOD OF SHIPMENT [redacted]
COOLER TEMPERATURE [redacted]

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed a[redacted]

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-10-100

DUE DATE : 10-19-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill RD
Livingston NJ 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7591
P.O. #: 1284.B004.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRD Bathpage

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC 8260	SVOC 8270	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB25-10-1099	2		G	2	10/4/99	0825		X	X	X	X	X	
2	SB25-50-1099	2		G	2	10/4/99	1000		X	X	X	X	X	
3	SB27-10-1099	2		G	2	10/5/99	8:10		X	X	X	X	X	
4	SB27-20-1099	2		G	2	10/5/99	9:15		X	X	X	X	X	
5	SB27-30-1099	2		G	2	10/5/99	10:15		X	X	X	X	X	
6	SB27-40-1099	2		G	2	10/5/99	11:55		X	X	X	X	X	
7	SB27-50-1099	2		G	2	10/5/99	1350		X	X	X	X	X	

SAMPLED BY: Brother Tasker
DATE: 10-5-99
TIME: 16-00-00

QUOTATION #:

RELINQUISHED BY:
DATE:
TIME:

RECEIVED BY:
DATE:
TIME:

RELINQUISHED BY:
DATE:
TIME:

RECEIVED FOR LAB BY: William J McNamara
DATE: 10-6-99
TIME: 9-00

METHOD OF SHIPMENT

COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?
Yes No If Yes, 1st Known

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 11-10-1012

DUE DATE : 10-20-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7486 FAX #: (973) 597-7591
P.O. #: 1284.B004.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NAVIRP Bathgate

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC	SVOC	PCB	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENT
1	SBB-20-1099	2		G	2	10/6/99	1150	none	X	X	X	X	X	
2	SBB-30-1099	2		G	2	10/6	1300	—	X	X	X	X	X	
3	SBB-40-1099	2		G	2	10/6	1405	—	X	X	X	X	X	
4	SBB-50-1099	2		G	2	10/6	1505	—	X	X	X	X	X	

SAMPLED BY: Andrew Hoffbeck
~~DATE~~ 11-00-00
~~TIME~~ 10-06-99
QUOTATION #:

RELINQUISHED BY: DATE: TIME:
RECEIVED BY: DATE: TIME:

RELINQUISHED BY: DATE: TIME:
RECEIVED FOR LAB BY: DATE: 10-7-99 TIME: 11-00-AM

METHOD OF SHIPMENT: FEDEX
COOLER TEMPERATURE: [redacted]

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?
Yes [redacted] No [redacted] If Yes, list Known [redacted]

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-10-168

DUE DATE : 10-22-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Road
Livingston NJ 07039
PHONE #: (973) ~~597-7440~~ FAX #: (973) 597-7591
P.O. #:
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: Bethpage - NWIRP Bethpage, NY

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOCs	SVOCs	PCBs	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB18-10-1099	2		G	2	10/07/99	0905	NONE	X	X	X	X	X	
2	SB18-20-1099	2		G	2	10/07/99	1100	NONE	X	X	X	X	X	
3	SB18-30-1099	2		G	2	10/07/99	1210	NONE	X	X	X	X	X	
4	SB18-40-1099	2		G	2	10/07/99	1350	NONE	X	X	X	X	X	
5	SB18-50-1099	2		G	2	10/07/99	1500	NONE	X	X	X	X	X	

SAMPLED BY: Morgan Gibbs — DATE: 10-07-99 TIME: 1500
RELINQUISHED BY: Morgan Gibbs — DATE: 10-07-99 TIME: 1730
RELINQUISHED BY: — DATE: — TIME: —

QUOTATION #:
RECEIVED BY: — DATE: — TIME: —
RECEIVED FOR LAB BY: William H. McGlothlin — DATE: 10-8-99 TIME: 4-25-PM

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 30kTAT

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-10-191

DUE DATE : 10-22-99

COMPANY: Foster Wheeler Environmental Corp.
ADDRESS: 8 Peach Tree Hill Road
Livingston, NJ 07039
PHONE #: (973) 597-7440 FAX #: (973) 597-7591
P.O. #:
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: Bethpage-NWIRP, Bethpage, NY

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOCs	SVOCs	PCBs	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB15-10-1099	2		G	2	10/8/99	1000	NONE	X	X	X	X	X	
2	SB15-20-1099	2		G	2	10/8/99	1125	NONE	X	X	X	X	X	
3	SB15-30-1099	2		G	2	10/8/99	1200	NONE	X	X	X	X	X	
4	SB15-40-1099	2		G	2	10/8/99	1335	NONE	X	X	X	X	X	

SAMPLED BY: Morgan Evans
DATE: 10-08-99
TIME: 1400

RELINQUISHED BY: Morgan Evans
DATE: 10-08-99
TIME: 1800

RELINQUISHED BY:
DATE:
TIME:

QUOTATION #:

RECEIVED BY:
DATE:
TIME:

RECEIVED FOR LAB BY:
DATE: 10-11-99
TIME: 10 AM

☐ RUSH ..... BUSINESS DAY TURN AROUND
☑ ROUTINE 3 week

Sample disposal information
Are there any other known or suspected contaminants in these samples other than

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99.10.213

DUE DATE : 10-25-99

COMPANY: Earth Tech Environmental Corp.
ADDRESS: 3 Beach Tree Hill Road
Livingston, NJ 07039
PHONE #: (973) 597-7442 FAX #: (973) 597-7591
P.O. #:
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: Bethpage - NDIBP, Bethpage, NY

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOCs	SVOCs	PCB	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENTS
(1)	SB15-50-1099	2		G	2	10/11/99	0804	NONE	X	X	X	X	X	
(2)	SB19-10-1099	2		G	2	10/11/99	1340	NONE	X	X	X	X	X	
(3)	SB9-20-1099	2		G	2	10/11/99	1413	None	X	X	X	X	X	
(4)	SB19-30-1099	2		G	2	10/11/99	1505	None	X	X	X	X	X	

SAMPLED BY: Morgan Evans — DATE: 10 - 11 - 99, TIME: 1530
RELINQUISHED BY: Morgan Evans — DATE: 10 - 11 - 99, TIME: 1800
RELINQUISHED BY: FED-EX — DATE: 10 - 12 - 99, TIME: 09 - 00
QUOTATION #:
RECEIVED BY: — DATE: - - , TIME: -
RECEIVED FOR LAB BY: — DATE: 10 - 12 - 99, TIME: 09 - 00
COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3 week
Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: [illegible]

DUE DATE : 10-26-99

COMPANY: Foster Wheeler Environmental Corp.
ADDRESS: 8 Peach Tree Hill Road
Livingston
PHONE #: (973) 597-7440 FAX #: (973) 597-7591
P.O. #:
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: Bethpage - NWIRP Bethpage, NY

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOCs	SVOCs	PCBs	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENT
1	SB19-40-1099	2		G	2	10/12/99	0815	None	X	X	X	X	X	
2	SB19 50-1099	2		G	2	10/12/99	0905	NONE	X	X	X	X	X	
3	SB20-10-1099	2		G	2	10/12/99	13:10	None	X	X	X	X	X	

SAMPLED BY: [signature]
DATE: 10 - 12 - 99
TIME: 12 - 30 - 00

RELINQUISHED BY: Andrew Moffett
DATE: 10 - 12 - 99
TIME: 16 - 30 - 00

RELINQUISHED BY: FED-EX
DATE: 10 - 13 - 99
TIME: 09 - 00 -

METHOD OF SHIPMENT

QUOTATION #:

RECEIVED BY: [signature]
DATE: 10 - 13 - 99
TIME: 09 - 40 - 00

RECEIVED FOR LAB BY: [signature]
DATE: 10 - 13 - 99
TIME: 09 - 00 -

COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3 week

Sample disposal information

Are there any other known or suspected contaminants in these samples other than those listed above?

Yes [illegible] No [illegible] If Yes, list Known [illegible]

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99.10.260

DUE DATE : 10-27-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Road
Livingston, NJ 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7591
P.O. #: 1284. B004. 0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage, NY

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC 8260	SVOC 8270	PCB	Pesticides	Metals	SPECIAL INSTRUCTION COMMENTS
1	SB20-20-1099	2		G	2	10/12/99	13:55	none	X	X	X	X	X	
2	SB20-30-1099	2		G	2	10/12/99	14:35	—	X	X	X	X	X	
3	SB20-40-1099	2		G	2	10/12/99	15:15	—	X	X	X	X	X	
4	SB20-50-1099	2		G	2	10/13/99	8:15	—	X	X	X	X	X	

SAMPLED BY: Andrew Profeta
DATE: 10 - 12 - 99
TIME: 11 - 00 - 00

RELINQUISHED BY:
DATE: - -
TIME: - -

RELINQUISHED BY:
DATE: - -

QUOTATION #:

RECEIVED BY:
DATE: - -
TIME: - -

RECEIVED FOR LAB BY: William A. McNamara
DATE: 10 - 14 - 99
TIME: 10:00

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3 wks

Sample disposal information
Are there any other known or suspected contaminants in these samples other than

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-10-288

DUE DATE : 10-28-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7171 FAX #: (973) 597-7591
P.O. #: 284.B004.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage NY

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENT
1	SB21-10-1099	2		G	2	10/14/99	8:45	none	X	X	X	X	X	
2	SB21-20-1099	2		G	2	—	10:45	—	X	X	X	X	X	
3	SB21-30-1099	2		G	2	—	11:45	—	X	X	X	X	X	
4	SB21-40-1099	2		G	2	—	13:20	—	X	X	X	X	X	
5	SB21-40D-1099	2		G	2	—	13:20	—	X	X	X	X	X	Duplicate

SAMPLED BY: Andrew Hughes DATE: 10-14-99 TIME: 16:30:00
RELINQUISHED BY: DATE: — TIME: —
RELINQUISHED BY: [redacted] DATE: [redacted]

QUOTATION #:
RECEIVED BY: DATE: — TIME: —
RECEIVED FOR LAB BY: [redacted] DATE: 10-15-99 TIME: [redacted]

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3wks
Sample disposal information
Are there any other known or suspected [redacted]

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 98-10-315
DUE DATE : 10-29-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7172 FAX #: (973) 597-7591
P.O. #: 1284.B004.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC	SVOC	PCB	Pesticides	RCRA Metals								SPECIAL INSTRUCTION COMMENT
1	SB21-50-1099	2		G	2	10/15/99	10:20	none	X	X	X	X	X								
2	FB101599	7		V&P	5	10/15/99	13:00	HCL/HNO3	X	X	X	X	X								Field Blank
3	SB22-10-1099	2		G	2	10/15/99	1340	none	X	X	X	X	X								
4	SB22-20-1099	2		G	2	10/15/99	1430	none	X	X	X	X	X								

SAMPLED BY: Andrew Bogdek
DATE: 10 - 15 - 99
TIME: 16 - 30 - 00
QUOTATION #:
RELINQUISHED BY:
DATE:
TIME:
RECEIVED BY:
DATE:
TIME:
RELINQUISHED BY:
DATE:
RECEIVED FOR LAB BY:
DATE: 10 - 16 - 99

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3 weeks
Sample disposal information

TURNUN
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

DUE DATE : 10-31-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7172 FAX #: (973) 597-7591
P.O. #: 1284.B04.0205.0000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRD Bethpage

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 8. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/COMMENTS
1	SB22-30-1099	2		G		10/18/99	8:40	None	X	X	X	X	X	
2	SB22-30MS/MSD	2		G		10/18/99	8:40	—	X	X	X	X	X	matrix Spk matrix Dup
3	SB22-40-1099	2		G		10/18/99	10:15	—	X	X	X	X	X	
4	SB22-50-1099	2		G		10/18/99	11:00	—	X	X	X	X	X	

SAMPLED BY: Andrew Kaftan
DATE: 10 - 18 - 99
TIME: 15 - 00 - 00

QUOTATION #:

RELINQUISHED BY:
DATE:
TIME:

RECEIVED BY:
DATE:
TIME:

RELINQUISHED BY:
DATE:
TIME:

RECEIVED FOR LAB BY: William D. McNamara
DATE: 10 - 19 - 99
TIME: 9 - 00 - AM

☐ RUSH ..... BUSINESS DAY TURN AROUI
☐ ROUTINE 3 wks

Sample disposal information
Are there any other known or suspected contaminants in these samples other than

10/13/99 08:19 FAX

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-10-391

DUE DATE : 11-4-99

COMPANY: Foster Wheeler Environmental Corp.
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-4113 FAX #: (973) 597-7591
P.O. #: 1284. 8004. 990205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER(GW/MW/SW), 7. OTHER (SPECIFY
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC	SVOC	PCB	Pesticides	RCRA Metals	SPECIAL INSTRUCTION/ COMMENT
1	SB23-10-1099	2		G	2	10/19/99	930	none	X	X	X	X	X	
2	SB23-20-1099	2		G	2	10/19/99	1055	—	X	X	X	X	X	
3	SB23-30-1099	2		G	2	10/19/99	1320	—	X	X	X	X	X	
4	SB23-40-1099	2		G	2	10/19/99	1415	—	X	X	X	X	X	
5	SB23-50-1099	2		G	2	10/19/99	1500	—	X	X	X	X	X	

SAMPLED BY: Andrew Prophete
DATE: 10 - 19 - 99
TIME: 16 - 30 - 00

RELINQUISHED BY:
DATE:
TIME:

RELINQUISHED BY:
DATE:
TIME:

METHOD OF SHIPMENT

QUOTATION #:

RECEIVED BY:
DATE:
TIME:

RECEIVED FOR LAB BY: William D. McNamara
DATE: 10 - 21 - 99
TIME: 9 - 00 - 00

COOLER/TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3 WKS

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?
Yes No If Yes, 1st Known

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99-10-290
DUE DATE : 11-4-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7172 FAX #: (973) 597 7591
P.O. #: 1284.B009.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB23-20-1099	2		G	2	10/19/99	1050	none	X	X	X	X	X	
2	SB23-30-1099	2		G	2	10/19/99	1155	—	X	X	X	X	X	
3	SB23-40-1099	2		G	2	10/19	1340	—	X	X	X	X	X	
4	SB23-50-1099	2		G	2	10/19	1510	—	X	X	X	X	X	
	14													

SAMPLED BY: Andrew Proffitt
DATE: 10 - 19 - 99
TIME: 16 - 30 - 00
QUOTATION #:

RELINQUISHED BY:
DATE: - -
TIME: -
RECEIVED BY:
DATE: - -
TIME: -

RELINQUISHED BY:
DATE: -
RECEIVED FOR LAB BY:
DATE: 10 - 21 - 99
TIME: [redacted]

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 2 wks

Sample disposal information
Are there any other known or suspected contaminants in these samples other than [redacted]

TOXIKON
Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: ____-____-____

DUE DATE : ____-____-____

COMPANY: Foster Wheeler Environmental Corp.
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7591
P.O. #: 1284. B004. 990205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB Pesticides	RCRA Metals	SPECIAL INSTRUCTIONS/ COMMENTS
	SB23-10-1099	2		G	2	10/19/99	930	none	X	X	X	X	X	
	SB23-20-1099	2		G	2	10/19/99	1055	—	X	X	X	X	X	
	SB23-30-1099	2		G	2	10/19/99	1320	—	X	X	X	X	X	
	SB23-40-1099	2		G	2	10/19/99	1415	—	X	X	X	X	X	
	SB23-50-1099	2		G	2	10/19/99	1500	—	X	X	X	X	X	

SAMPLED BY: Andrew Pawlicki
DATE: 10 - 19 - 99
TIME: 16 - 30 - 00

QUOTATION #:

RELINQUISHED BY: DATE: - - TIME: - -

RECEIVED BY: DATE: - - TIME: - -

RELINQUISHED BY: DATE: - - TIME: - -

RECEIVED FOR LAB BY: DATE: - - TIME: - -

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3 wks

Sample disposal information
Are there any other known or suspected contaminants in these samples other than

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99.10.440

DUE DATE : 11.5.99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 533-7413 FAX #: (973) 597-7911
P.O. #: 1284.B004.005.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE	CONTAINER TYPE
1. WASTEWATER	P - PLASTIC
2. SOIL	G - GLASS
3. SLUDGE	V - VOA
4. OIL	
5. DRINKING WATER	
6. WATER (GW/MW/SW)	
7. OTHER (SPECIFY	

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	VOC	SVOC	PCB	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB16-10-1099	2		G	2	10/21/99	1130	None	X	X	X	X	X	
2	SB16-20-1099	2		G	2	10/21/99	1315	—	X	X	X	X	X	
3	SB16-30-1099	2		G	2	10/21/99	1355	—	X	X	X	X	X	
4	SB16-40-1099	2		G	2	10/21/99	1505	—	X	X	X	X	X	
5	SB16-50-1099	2		G	2	10/22/99	840	—	X	X	X	X	X	

SAMPLED BY: Andrew Popkin
DATE: 10 - 22 - 99
TIME: 16 - 00 - 00

RELINQUISHED BY:
DATE:
TIME:

RELINQUISHED BY:
DATE:
TIME:

METHOD OF SHIPMENT

QUOTATION #:

RECEIVED BY:
DATE:
TIME:

RECEIVED FOR LAB BY: William D. McDonnell
DATE: 10 - 23 - 99
TIME: 9 - 00 - AM

COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3 WKS

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above? X

11/04/99 13:45 FAX
NOV 04 1999 12:52
PAGE.29

IWI KUN
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUS.ODY RECORD

WORK ORDER #: 99 . ? - 446

DUE DATE : 10 - 6 - 99

COMPANY: Foster Wheeler Environmental Corp.
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7172 FAX #: (973) 597-7591
P.O. #: 1284 [illegible] 0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB	Pesticides	metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB12-20-1099	2		G	2	10/22/99	1055	None	X	X	X	X	X	
2	SB12-30-1099	2		G	2	—	1125	—	X	X	X	X	X	
3	SB12-30D-1099	2		G	2	—	1125	—	X	X	X	X	X	Duplicate
4	SB12-40-1099	2		G	2	—	1135	—	X	X	X	X	X	
5	SB12-50-1099	2		G	2	—	1415	—	X	X	X	X	X	

SAMPLED BY: A. Profhete
DATE: 10 - 22 - 99
TIME: 16 - 30 - 00

QUOTATION #:

RELINQUISHED BY: ✓
DATE: - -
TIME: - -

RECEIVED BY: ✓
DATE: - -
TIME: - -

RELINQUISHED BY: ✓
DATE: - -
TIME: - -

RECEIVED FOR LAB BY: William D. McDonald
DATE: 10 - 23 - 99
TIME: 9 - 00 - AM

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3 WKS

Sample disposal information
Are there any other known or suspected contaminants in these samples other than

TOXIKON
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 99.10.471

DUE DATE : 11.04.99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 599-7463 FAX #: (973) 597-7591
P.O. #: 1284.B009.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage, NY

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB	Dissolved Metals							SPECIAL INSTRUCTIONS/ COMMENTS
1	SB11-10-1099	2		G	2	10/25/99	9:50	none	X	X	X	X	X						
2	SB11R-10-1099	2		G	2	10/25	11:30	—	X	X	X	X	X						
3	FB102599	7		PGV	5	10/25	10:45	—	X	X	X	X	X				pH 2,7		Field Blan
4	SB11R-20-1099	2		G	2	10/25	13:20	—	X	X	X	X	X						
5	SB11R-30-1099	2		G	2	10/25	14:35	—	X	X	X	X	X						
6	SB11R-30MS-1099	7		G	2	10/25	14:35	—	X	X	X	X	X						matrix spike Matrix Spike

SAMPLED BY: A. Hoffer
DATE: 10 - 25 - 99
TIME: 16 - 30 - 00
QUOTATION #:

RELINQUISHED BY:
DATE:
TIME:

RECEIVED BY:
DATE:
TIME:

RELINQUISHED BY:
DATE:
TIME:

RECEIVED FOR LAB BY:
DATE: 10 - 26 - 99
TIME: 9 - 00 - AM

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 2 WKS

Sample disposal information
Are there any other known or suspected contaminants in these samples other than

CHAIN OF CUSTODY RECORD

TURNUN
15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781)-275-7478

WORK ORDER #: 11-10-350

DUE DATE : 11.09.99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7413 FAX #: (973 597-7591
P.O. #: 284. Book. B0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NWIRP Bethpage, N.Y.

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENT
1	SB17-10-1099	2		G	2	10/26/99	11:10	none	X	X	X	X	X	
2	SB17-10MS-1099	2		G	2	10/26/99	11:10	none	X	X	X	X	X	matrix spike MSD
3	SB17-20-1099	2		G	2	10/26/99	11:50	none	X	X	X	X	X	
4	SB17-30-1099	2		G	2	10/26/99	13:35	none	X	X	X	X	X	
5	SB17-40-1099	2		G	2	10/26/99	14:20	none	X	X	X	X	X	
6	SB17-50-1099	2		G	2	10/27/99	08:10	none	X	X	X	X	X	
7	TB102799	7		V	1	10/27/99	09:00	HCL	X					Trip Blan

SAMPLED BY: Andrew Prophett
DATE: 10 - 27 - 99
TIME: 11 - 00 - 00

RELINQUISHED BY:
DATE: - -
TIME: -

RELINQUISHED BY: FED EX
DATE: 10 - 28 - 99
TIME: 10 - 00 -

METHOD OF SHIPMENT

QUOTATION #:

RECEIVED BY:
DATE: -
TIME: -

RECEIVED FOR LAB BY:
DATE: 10 - 28 - 99
TIME: 10 - 00 -

COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 2WKS

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?
Yes ___ No ☑ If Yes, 1st Known . . . . . .

15 Wiggins Ave., Bedford, MA 01730
Telephone: (781) 275-3330
Fax: (781) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 77-10-711

DUE DATE : 11-5-99

COMPANY: Foster Wheeler Environmental
ADDRESS: 8 Peach Tree Hill Rd
Livingston NJ 07039
PHONE #: (973) 597-7413 FAX #: (973) 597-7571
P.O. #: 1284.B004.0205.00000
PROJECT MANAGER: Marlene Lindhardt
PROJECT ID/LOCATION: NIWIRP Bethpage NY

SAMPLE TYPE: 1. WASTEWATER, 2. SOIL, 3. SLUDGE, 4. OIL, 5. DRINKING WATER, 6. WATER (GW/MW/SW), 7. OTHER (SPECIFY)
CONTAINER TYPE: P - PLASTIC, G - GLASS, V - VOA

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	ANALYSES: VOC	SVOC	PCB	Pesticides	Metals	SPECIAL INSTRUCTIONS/ COMMENTS
1	SB11R-40-1099	2		G	2	10/26/99	805	none	X	X	X	X	X	
2	SB11R-40D-1099	2		G	2	11	805	11	X	X	X	X	X	Duplicate
3	SB11R-50-1099	2		G	2	11	905	11	X	X	X	X	X	
4	FB102699	7		PGV	5	11	1500	HCl/HNO_3	X	X	X	X	X	

SAMPLED BY: A. Profeta
DATE: 10-26-99
TIME: 16-30-00

QUOTATION #:

RELINQUISHED BY:
DATE:
TIME:

RECEIVED BY:
DATE:
TIME:

RELINQUISHED BY:
DATE:
TIME:

RECEIVED FOR LAB BY: William D. McNamara
DATE: 10-27-99
TIME: 9-00-AM

METHOD OF SHIPMENT

COOLER TEMPERATURE

☐ RUSH ..... BUSINESS DAY TURN AROUND
☒ ROUTINE 3wks

Sample disposal information
Are there any other known or suspected contaminants in these samples other than those listed above?
[redacted] [redacted] X [redacted] 1st [redacted]

APPENDIX C

ANALYTICAL DATA RESULTS
VOLATILE ORGANIC COMPOUNDS

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB01-20-0999	SB01-30-0999	SB01-40-0999	SB01-48-0999
Acetone				
Chloromethane				
Bromomethane				
Vinyl Chloride				
Chloroethane				
Methylene Chloride				
1,1-Dichloroethene				
Trichlorofluoromethane				
1,1-Dichloroethane				
Trans-1,2-Dichloroethene				
Chloroform				
1,2-Dichloroethane				
1,1,1-Trichloroethane				
Carbon Tetrachloride				
Bromodichloromethane				
1,2-Dichloropropane				
Trichloroethene				
Dibromochloromethane				
1,1,2-Trichloroethane				
Benzene				
1,1-Dichloropropene				
2-2-Dichloropropane				
Bromoform				
Hexachlorobutadiene				
Isopropylbenzene				
Tetrachloroethene				
Methyl tertiary butyl ether				
Toluene				
Chlorobenzene				
Ethylbenzene				
p-Isopropyltoluene				
o-Xylene				
m+p-Xylene				
1,2-Dichlorobenzene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
Naphthalene				
n-Propylbenzene				
Bromobenzene				
Bromochloromethane				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
2-Chlorotoluene				
4-Chlorotoluene				
1,2-Dibromo-3-chloropropane				
1,2-Dibromomethane				
Dibromomethane				
Dichlorodifluoromethane				
cis-1,2-Dichloroethene				
1,3-Dichloropropane				
1,1,1,2-Tetrachloroethane				
1,2,3-Trichlorobenzene				
1,1,2,2-Tetrachloroethane				
1,2,4-Trichlorobenzene				
1,2,3-Trichloropropane				
1,2,4-Trimethylbenzene				
1,3,5-Trimethylbenzene				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
Styrene				
Total VOCs	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB02-20-0999	SB02-30-0999	SB02-40-0999	SB02-48-0999	SB02-48D-0999 Duplicate
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether		59			
Toluene					
Chlorobenzene					
Ethylbenzene		8			
p-Isopropyltoluene					
o-Xylene		12			
m+p-Xylene		28			
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	107	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB03-20-0999	SB03-30-0999	SB03-40-0999	SB03-48-0999	FBBP-091599
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB04-30-0999	SB04-40-0999	SB04-50-0999
Acetone			
Chloromethane			
Bromomethane			
Vinyl Chloride			
Chloroethane			
Methylene Chloride			
1,1-Dichloroethene			
Trichlorofluoromethane			
1,1-Dichloroethane			
Trans-1,2-Dichloroethene			
Chloroform			
1,2-Dichloroethane			
1,1,1-Trichloroethane			
Carbon Tetrachloride			
Bromodichloromethane			
1,2-Dichloropropane			
Trichloroethene			
Dibromochloromethane			
1,1,2-Trichloroethane			
Benzene			
1,1-Dichloropropene			
2-2-Dichloropropane			
Bromoform			
Hexachlorobutadiene			
Isopropylbenzene			
Tetrachloroethene			
Methyl tertiary butyl ether			
Toluene			
Chlorobenzene			
Ethylbenzene			
p-isopropyltoluene			
o-Xylene			
m+p-Xylene			
1,2-Dichlorobenzene			
1,3-Dichlorobenzene			
1,4-Dichlorobenzene			
Naphthalene			
n-Propylbenzene			
Bromobenzene			
Bromochloromethane			
n-Butylbenzene			
sec-Butylbenzene			
tert-Butylbenzene			
2-Chlorotoluene			
4-Chlorotoluene			
1,2-Dibromo-3-chloropropane			
1,2-Dibromomethane			
Dibromomethane			
Dichlorodifluoromethane			
cis-1,2-Dichloroethene			
1,3-Dichloropropane			
1,1,1,2-Tetrachloroethane			
1,2,3-Trichlorobenzene			
1,1,2,2-Tetrachloroethane			
1,2,4-Trichlorobenzene			
1,2,3-Trichloropropane			
1,2,4-Trimethylbenzene			
1,3,5-Trimethylbenzene			
cis-1,3-Dichloropropene			
trans-1,3-Dichloropropene			
Styrene			
Total VOCs	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB05-10-1099	SB05-20-1099	SB05-30-1099	SB05-40-1099	SB05-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB06-03-0999	SB06-10-0999	SB06-20-0999	SB06-30-0999	SB06-40-0999	SB06-50-0999
Acetone	13	18				62
Chloromethane						
Bromomethane						
Vinyl Chloride						
Chloroethane						
Methylene Chloride						
1,1-Dichloroethene						
Trichlorofluoromethane						
1,1-Dichloroethane						
Trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
1,1,1-Trichloroethane						17
Carbon Tetrachloride						
Bromodichloromethane						
1,2-Dichloropropane						
Trichloroethene	18					
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzene						
1,1-Dichloropropene						
2-2-Dichloropropane						
Bromoform						
Hexachlorobutadiene						
Isopropylbenzene						
Tetrachloroethene	120	89				260
Methyl tertiary butyl ether						
Toluene						
Chlorobenzene						
Ethylbenzene		7.4				
p-Isopropyltoluene						100
o-Xylene						82
m+p-Xylene		30				
1,2-Dichlorobenzene						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
Naphthalene	6					
n-Propylbenzene		6.2				6.6
Bromobenzene						
Bromochloromethane						
n-Butylbenzene	5.1					19
sec-Butylbenzene						
tert-Butylbenzene						
2-Chlorotoluene						
4-Chlorotoluene						
1,2-Dibromo-3-chloropropane						
1,2-Dibromomethane						
Dibromomethane						
Dichlorodifluoromethane						
cis-1,2-Dichloroethene						
1,3-Dichloropropane						
1,1,1,2-Tetrachloroethane						
1,2,3-Trichlorobenzene						
1,1,2,2-Tetrachloroethane						
1,2,4-Trichlorobenzene						
1,2,3-Trichloropropane						
1,2,4-Trimethylbenzene	8.2	28				190
1,3,5-Trimethylbenzene	5.4	9.3				24
cis-1,3-Dichloropropene						
trans-1,3-Dichloropropene						
Styrene						
Total VOCs	175.7	187.9	0	0	0	760.6

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	S807-10-0999	S807-20-0999	S807-30-0999	S807-40-0999	S807-50-0999
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB08-10-0999	SB08-20-0999	SB08-20-0999 MS/MSD	SB08-30-0999	SB08-40-0999	SB08-50-0999
						15
Acetone						
Chloromethane						
Bromomethane						
Vinyl Chloride						
Chloroethane						
Methylene Chloride						
1,1-Dichloroethene						
Trichlorofluoromethane						
1,1-Dichloroethane						
Trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Bromodichloromethane						
1,2-Dichloropropane						
Trichloroethene						
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzene						
1,1-Dichloropropene						
2-2-Dichloropropane						
Bromoform						
Hexachlorobutadiene						
Isopropylbenzene						22
Tetrachloroethene						
Methyl tertiary butyl ether						
Toluene						
Chlorobenzene						
Ethylbenzene						5.7
p-Isopropyltoluene						
o-Xylene						
m+p-Xylene						
1,2-Dichlorobenzene						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
Naphthalene						
n-Propylbenzene						
Bromobenzene						
Bromochloromethane						
n-Butylbenzene						
sec-Butylbenzene						
tert-Butylbenzene						
2-Chlorotoluene						
4-Chlorotoluene						
1,2-Dibromo-3-chloropropane						
1,2-Dibromomethane						
Dibromomethane						
Dichlorodifluoromethane						
cis-1,2-Dichloroethene						
1,3-Dichloropropane						
1,1,1,2-Tetrachloroethane						
1,2,3-Trichlorobenzene						
1,1,2,2-Tetrachloroethane						
1,2,4-Trichlorobenzene						
1,2,3-Trichloropropane						5
1,2,4-Trimethylbenzene						
1,3,5-Trimethylbenzene						
cis-1,3-Dichloropropene						
trans-1,3-Dichloropropene						
Styrene						
Total VOCs	0	0	0	0	0	47.7

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB09-20-0999	SB09-30-0999	SB09-40-0999
Acetone			
Chloromethane			
Bromomethane			
Vinyl Chloride			
Chloroethane			
Methylene Chloride			
1,1-Dichloroethene			
Trichlorofluoromethane			
1,1-Dichloroethane			
Trans-1,2-Dichloroethene			
Chloroform			
1,2-Dichloroethane			
1,1,1-Trichloroethane			
Carbon Tetrachloride			
Bromodichloromethane			
1,2-Dichloropropane			
Trichloroethene			
Dibromochloromethane			
1,1,2-Trichloroethane			
Benzene			
1,1-Dichloropropene			
2-2-Dichloropropane			
Bromoform			
Hexachlorobutadiene			
Isopropylbenzene			
Tetrachloroethene			
Methyl tertiary butyl ether			
Toluene			
Chlorobenzene			
Ethylbenzene			
p-Isopropyltoluene			
o-Xylene			
m+p-Xylene			
1,2-Dichlorobenzene			
1,3-Dichlorobenzene			
1,4-Dichlorobenzene			
Naphthalene			
n-Propylbenzene			
Bromobenzene			
Bromochloromethane			
n-Butylbenzene			
sec-Butylbenzene			
tert-Butylbenzene			
2-Chlorotoluene			
4-Chlorotoluene			
1,2-Dibromo-3-chloropropane			
1,2-Dibromomethane			
Dibromomethane			
Dichlorodifluoromethane			
cis-1,2-Dichloroethene			
1,3-Dichloropropane			
1,1,1,2-Tetrachloroethane			
1,2,3-Trichlorobenzene			
1,1,2,2-Tetrachloroethane			
1,2,4-Trichlorobenzene			
1,2,3-Trichloropropane			
1,2,4-Trimethylbenzene			
1,3,5-Trimethylbenzene			
cis-1,3-Dichloropropene			
trans-1,3-Dichloropropene			
Styrene			
Total VOCs	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB10-3.5-0999	SB10-24-0999	SB10-30-0999	SB10-35-0999	SB10-40-0999	SB10-50-0999	FB-SP-092899
Acetone							
Chloromethane							
Bromomethane							
Vinyl Chloride							
Chloroethane							
Methylene Chloride						6 6	
1,1-Dichloroethene							
Trichlorofluoromethane							
1,1-Dichloroethane							
Trans-1,2-Dichloroethene							
Chloroform							
1,2-Dichloroethane							
1,1,1-Trichloroethane							
Carbon Tetrachloride							
Bromodichloromethane							
1,2-Dichloropropane							
Trichloroethene							
Dibromochloromethane							
1,1,2-Trichloroethane							
Benzene							
1,1-Dichloropropene							
2-2-Dichloropropane							
Bromoform							
Hexachlorobutadiene							
Isopropylbenzene							
Tetrachloroethene							
Methyl tertiary butyl ether							
Toluene							
Chlorobenzene							
Ethylbenzene							
p-Isopropyltoluene							
o-Xylene							
m+p-Xylene							
1,2-Dichlorobenzene							
1,3-Dichlorobenzene							
1,4-Dichlorobenzene							
Naphthalene							
n-Propylbenzene							
Bromobenzene							
Bromochloromethane							
n-Butylbenzene							
sec-Butylbenzene							
tert-Butylbenzene							
2-Chlorotoluene							
4-Chlorotoluene							
1,2-Dibromo-3-chloropropane							
1,2-Dibromomethane							
Dibromomethane							
Dichlorodifluoromethane							
cis-1,2-Dichloroethene							
1,3-Dichloropropane							
1,1,1,2-Tetrachloroethane							
1,2,3-Trichlorobenzene							
1,1,2,2-Tetrachloroethane							
1,2,4-Trichlorobenzene							
1,2,3-Trichloropropane							
1,2,4-Trimethylbenzene							
1,3,5-Trimethylbenzene							
cis-1,3-Dichloropropene							
trans-1,3-Dichloropropene							
Styrene							
Total VOCs	0	0	0	0	0	6 6	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB11-10-1099	SB11-20-1099	SB11-30-1099	SB11-40-1099	SB11-40D-1099 Duplicate	SB11-50-1099	FB-102599	FB102699	SB11R-30MS-1099
Acetone									
Chloromethane									
Bromomethane									
Vinyl Chloride									
Chloroethane									
Methylene Chloride									
1,1-Dichloroethene									
Trichlorofluoromethane									
1,1-Dichloroethane									
Trans-1,2-Dichloroethene									
Chloroform									
1,2-Dichloroethane									
1,1,1-Trichloroethane									
Carbon Tetrachloride									
Bromodichloromethane									
1,2-Dichloropropane									
Trichloroethene									
Dibromochloromethane									
1,1,2-Trichloroethane									
Benzene									
1,1-Dichloropropene									
2-2-Dichloropropane									
Bromoform									
Hexachlorobutadiene									
Isopropylbenzene									
Tetrachloroethene									
Methyl tertiary butyl ether									
Toluene									
Chlorobenzene									
Ethylbenzene									
p-Isopropyltoluene									
o-Xylene									
m+p-Xylene									
1,2-Dichlorobenzene									
1,3-Dichlorobenzene									
1,4-Dichlorobenzene									
Naphthalene									
n-Propylbenzene									
Bromobenzene									
Bromochloromethane									
n-Butylbenzene									
sec-Butylbenzene									
tert-Butylbenzene									
2-Chlorotoluene									
4-Chlorotoluene									
1,2-Dibromo-3-chloropropane									
1,2-Dibromomethane									
Dibromomethane									
Dichlorodifluoromethane									
cis-1,2-Dichloroethene									
1,3-Dichloropropene									
1,1,1,2-Tetrachloroethane									
1,2,3-Trichlorobenzene									
1,1,2,2-Tetrachloroethene									
1,2,4-Trichlorobenzene									
1,2,3-Trichloropropene									
1,2,4-Trimethylbenzene									
1,3,5-Trimethylbenzene									
cis-1,3-Dichloropropene									
trans-1,3-Dichloropropene									
Styrene									
Total VOCs	0	0	0	0	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB12-20-1099	SB12-30-1099	SB12-30D-1099 Duplicate	SB12-40-1099	SB12-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene	9.9				
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene	23				
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	32.9	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB13-10-1099	SB13-20-1099	SB13-30-1099	SB13-40-1099	SB13-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethene					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB14-20-1099	SB14-30-1099	SB14-40-1099	SB14-50-1099
Acetone				
Chloromethane				
Bromomethane				
Vinyl Chloride				
Chloroethane				
Methylene Chloride				
1,1-Dichloroethene				
Trichlorofluoromethane				
1,1-Dichloroethane				
Trans-1,2-Dichloroethene				
Chloroform				
1,2-Dichloroethane				
1,1,1-Trichloroethane				
Carbon Tetrachloride				
Bromodichloromethane				
1,2-Dichloropropane				
Trichloroethene				
Dibromochloromethane				
1,1,2-Trichloroethane				
Benzene				
1,1-Dichloropropene				
2-2-Dichloropropane				
Bromoform				
Hexachlorobutadiene				
Isopropylbenzene				
Tetrachloroethene	6.8			
Methyl tertiary butyl ether				
Toluene				
Chlorobenzene				
Ethylbenzene				
p-Isopropyltoluene				
o-Xylene				
m+p-Xylene				
1,2-Dichlorobenzene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
Naphthalene				
n-Propylbenzene				
Bromobenzene				
Bromochloromethane				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
2-Chlorotoluene				
4-Chlorotoluene				
1,2-Dibromo-3-chloropropane				
1,2-Dibromomethane				
Dibromomethane				
Dichlorodifluoromethane				
cis-1,2-Dichloroethene				
1,3-Dichloropropane				
1,1,1,2-Tetrachloroethane				
1,2,3-Trichlorobenzene				
1,1,2,2-Tetrachloroethane				
1,2,4-Trichlorobenzene				
1,2,3-Trichloropropane				
1,2,4-Trimethylbenzene				
1,3,5-Trimethylbenzene				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
Styrene				
Total VOCs	6.8	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB15-10-1099	SB15-20-1099	SB15-30-1099	SB15-40-1099	SB15-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB16-10-1099	SB16-20-1099	SB16-30-1099	SB16-40-1099	SB16-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB17-10-1099	SB17-10MS-1099	SB17-20-1099	SB17-30-1099	SB17-40-1099	SB17-50-1099
Acetone						
Chloromethane						
Bromomethane						
Vinyl Chloride						
Chloroethane						
Methylene Chloride						
1,1-Dichloroethene						
Trichlorofluoromethane						
1,1-Dichloroethane						
Trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Bromodichloromethane						
1,2-Dichloropropane						
Trichloroethene						
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzene						
1,1-Dichloropropene						
2-2-Dichloropropane						
Bromoform						
Hexachlorobutadiene						
Isopropylbenzene						
Tetrachloroethene						2200
Methyl tertiary butyl ether						
Toluene						
Chlorobenzene						
Ethylbenzene						
p-Isopropyltoluene						89
o-Xylene						
m+p-Xylene						
1,2-Dichlorobenzene						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
Naphthalene						
n-Propylbenzene						
Bromobenzene						
Bromochloromethane						
n-Butylbenzene						
sec-Butylbenzene						140
tert-Butylbenzene						
2-Chlorotoluene						
4-Chlorotoluene						
1,2-Dibromo-3-chloropropane						
1,2-Dibromomethane						
Dibromomethene						
Dichlorodifluoromethane						
cis-1,2-Dichloroethene						
1,3-Dichloropropane						
1,1,1,2-Tetrachloroethane						
1,2,3-Trichlorobenzene						
1,1,2,2-Tetrachloroethane						
1,2,4-Trichlorobenzene						58
1,2,3-Trichloropropane						
1,2,4-Trimethylbenzene						
1,3,5-Trimethylbenzene						69
cis-1,3-Dichloropropene						
trans-1,3-Dichloropropene						
Styrene						
Total VOCs	0	0	0	0	0	2556

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB18-10-1099	SB18-20-1099	SB18-30-1099	SB18-40-1099	SB18-50-1099	SB17-50-1099
Acetone						
Chloromethane						
Bromomethane						
Vinyl Chloride						
Chloroethane						
Methylene Chloride						
1,1-Dichloroethene						
Trichlorofluoromethane						
1,1-Dichloroethane						
Trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Bromodichloromethane						
1,2-Dichloropropane						
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzene						
1,1-Dichloropropene						
2-2-Dichloropropane						
Bromoform						
Hexachlorobutadiene						
Isopropylbenzene						
Tetrachloroethene						
Methyl tertiary butyl ether						
Toluene						
Chlorobenzene						
Ethylbenzene						
p-Isopropyltoluene						
o-Xylene						
m+p-Xylene						
1,2-Dichlorobenzene						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
Naphthalene						
n-Propylbenzene						
Bromobenzene						
Bromochloromethane						
n-Butylbenzene						
sec-Butylbenzene						
tert-Butylbenzene						
2-Chlorotoluene						
4-Chlorotoluene						
1,2-Dibromo-3-chloropropane						
1,2-Dibromomethane						
Dibromomethane						
Dichlorodifluoromethane						
cis-1,2-Dichloroethene						
1,3-Dichloropropane						
1,1,1,2-Tetrachloroethane						
1,2,3-Trichlorobenzene						
1,1,2,2-Tetrachloroethane						
1,2,4-Trichlorobenzene						
1,2,3-Trichloropropane						
1,2,4-Trimethylbenzene						
1,3,5-Trimethylbenzene						
cis-1,3-Dichloropropene						
trans-1,3-Dichloropropene						
Styrene						
Total VOCs	0	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB19-10-1099	SB19-20-1099	SB19-30-1099	SB19-40-1099	SB19-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB20-10-1099	SB20-20-1099	SB20-30-1099	SB20-40-1099	SB20-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB21-10-1099	SB21-20-1099	SB21-30-1099	SB21-40-1099	SB21-40D-1099 Duplicate	SB21-50-1099
Acetone						
Chloromethane						
Bromomethane						
Vinyl Chloride						
Chloroethane						
Methylene Chloride						
1,1-Dichloroethene						
Trichlorofluoromethane						
1,1-Dichloroethane						
Trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Bromodichloromethane						
1,2-Dichloropropane						
Trichloroethene						
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzene						
1,1-Dichloropropene						
2-2-Dichloropropane						
Bromoform						
Hexachlorobutadiene						
Isopropylbenzene						
Tetrachloroethene						
Methyl tertiary butyl ether						
Toluene						
Chlorobenzene						
Ethylbenzene						
p-Isopropyltoluene						
o-Xylene						
m+p-Xylene						
1,2-Dichlorobenzene						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
Naphthalene						
n-Propylbenzene						
Bromobenzene						
Bromochloromethane						
n-Butylbenzene						
sec-Butylbenzene						
tert-Butylbenzene						
2-Chlorotoluene						
4-Chlorotoluene						
1,2-Dibromo-3-chloropropane						
1,2-Dibromomethane						
Dibromomethane						
Dichlorodifluoromethane						
cis-1,2-Dichloroethene						
1,3-Dichloropropane						
1,1,1,2-Tetrachloroethane						
1,2,3-Trichlorobenzene						
1,1,2,2-Tetrachloroethane						
1,2,4-Trichlorobenzene						
1,2,3-Trichloropropane						
1,2,4-Trimethylbenzene						
1,3,5-Trimethylbenzene						
cis-1,3-Dichloropropene						
trans-1,3-Dichloropropene						
Styrene						
Total VOCs	0	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB22-10-1099	SB22-20-1099	SB22-30-1099	SB22-30MS/MSD	SB22-40-1099	SB22-50-1099	FB101599
Acetone							
Chloromethane							
Bromomethane							
Vinyl Chloride							
Chloroethane							
Methylene Chloride							
1,1-Dichloroethene							
Trichlorofluoromethane							
1,1-Dichloroethane							
Trans-1,2-Dichloroethene							
Chloroform							
1,2-Dichloroethane							
1,1,1-Trichloroethene							
Carbon Tetrachloride							
Bromodichloromethane							
1,2-Dichloropropane							
Trichloroethene							
Dibromochloromethane							
1,1,2-Trichloroethane							
Benzene							
1,1-Dichloropropene							
2-2-Dichloropropane							
Bromoform							
Hexachlorobutadiene							
Isopropylbenzene							
Tetrachloroethene							
Methyl tertiary butyl ether							
Toluene							
Chlorobenzene							
Ethylbenzene							
p-Isopropyltoluene							
o-Xylene							
m+p-Xylene							
1,2-Dichlorobenzene							
1,3-Dichlorobenzene							
1,4-Dichlorobenzene							
Naphthalene							
n-Propylbenzene							
Bromobenzene							
Bromochloromethane							
n-Butylbenzene							
sec-Butylbenzene							
tert-Butylbenzene							
2-Chlorotoluene							
4-Chlorotoluene							
1,2-Dibromo-3-chloropropane							
1,2-Dibromomethane							
Dibromomethane							
Dichlorodifluoromethane							
cis-1,2-Dichloroethene							
1,3-Dichloropropane							
1,1,1,2-Tetrachloroethene							
1,2,3-Trichlorobenzene							
1,1,2,2-Tetrachloroethane							
1,2,4-Trichlorobenzene							
1,2,3-Trichloropropane							
1,2,4-Trimethylbenzene							
1,3,5-Trimethylbenzene							
cis-1,3-Dichloropropene							
trans-1,3-Dichloropropene							
Styrene							
Total VOCs	0	0	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB23-10-1099	SB23-20-1099	SB23-30-1099	SB23-40-1099	SB23-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropene					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB24-14-0999	SB24-20-0999	SB24-30-0999	SB24-40-0999	SB24-50-0999
Acetone	1400				
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane	4400				
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene	73000				
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene	460000	88			7.2
Methyl tertiary butyl ether			150		
Toluene	8900				
Chlorobenzene					
Ethylbenzene	980				
p-Isopropyltoluene					
o-Xylene	1100				
m+p-Xylene	3100				
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene	2500				
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene	650				
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene	2100				
1,3,5-Trimethylbenzene	1100	5.5			
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	559230	93.5	150	0	7.2

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB25-10-1099	SB25-20-1099	SB25-30-1099	SB25-40-1099	SB25-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB26-10-0999	SB26-20-0999	SB26-30-0999	SB26-40-0999	SB26-50-0999
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethene					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethane					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX C
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

ANALYTICAL RESULTS FOR TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
SAMPLE DESIGNATION

COMPOUND	SB27-10-1099	SB27-20-1099	SB27-30-1099	SB27-40-1099	SB27-50-1099
Acetone					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane					
Methylene Chloride					
1,1-Dichloroethene					
Trichlorofluoromethane					
1,1-Dichloroethane					
Trans-1,2-Dichloroethene					
Chloroform					
1,2-Dichloroethane					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
1,1-Dichloropropene					
2-2-Dichloropropane					
Bromoform					
Hexachlorobutadiene					
Isopropylbenzene					
Tetrachloroethane					
Methyl tertiary butyl ether					
Toluene					
Chlorobenzene					
Ethylbenzene					
p-Isopropyltoluene					
o-Xylene					
m+p-Xylene					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Naphthalene					
n-Propylbenzene					
Bromobenzene					
Bromochloromethane					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,2-Dibromo-3-chloropropane					
1,2-Dibromomethane					
Dibromomethane					
Dichlorodifluoromethane					
cis-1,2-Dichloroethene					
1,3-Dichloropropane					
1,1,1,2-Tetrachloroethane					
1,2,3-Trichlorobenzene					
1,1,2,2-Tetrachloroethene					
1,2,4-Trichlorobenzene					
1,2,3-Trichloropropene					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
cis-1,3-Dichloropropene					
trans-1,3-Dichloropropene					
Styrene					
Total VOCs	0	0	0	0	0

APPENDIX D

ANALYTICAL DATA RESULTS
SEMI-VOLATILE ORGANIC COMPOUNDS

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS				
	SAMPLE DESIGNATION			
COMPOUND	SB01-20-0999	SB01-30-0999	SB01-40-0999	SB01-48-0999
bis(2-Chloroethyl)ether				
2-Chlorophenol				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				
2-Methylphenol				
bis(2-Chloroisopropyl)Ether				
4-Methylphenol				
N-Nitroso-Di-n-propylamine				
Hexachloroethane				
Nitrobenzene				
Isophorone				
2-Nitrophenol				
2,4-Dimethylphenol				
bis(2-Chloroethoxy)Methane				
2,4-Dichlorophenol				
1,2,4-Trichlorobenzene				
Naphthalene				
4-Chloroaniline				
Hexachlorobutadiene				
4-Chloro-3-methylphenol				
2-Methylnaphthalene				
Hexachlorocyclopentadiene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenol				
2-Chloronaphthalene				
2-Nitroaniline				
Dimethyl Phthalate				
Acenaphthylene				
2,6-Dinitrotoluene				
3-Nitroaniline				
Acenaphthene				
2,4-Dinitrophenol				

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS				
	SAMPLE DESIGNATION			
COMPOUND	SB01-20-0999	SB01-30-0999	SB01-40-0999	SB01-48-0999
4-Nitrophenol				
Dibenzofuran				
2,4-Dinitrotoluene				
Diethylphthalate				
4-Chlorophenyl-phenylether				
Fluorene				
4-Nitroaniline				
4,6-Dinitro-2-methylphenol				
N-Nitrosodiphenylamine (1)				
4-Bromophenyl-phenylether				
Hexachlorobenzene				
Pentachlorophenol				
Phenanthrene				
Anthracene				
Benzidine				
Di-n-butylphthalate				
Fluoranthene				
Pyrene				
Butylbenzylphthalate				
3-Methylphenol				
2,6-Dichlorophenol				
3,3'-Dichlorobenzidine				
Benzo(a)anthracene				
Chrysene				
bis(2-ethylhexyl)phthalate				
Di-n-octyl phthalate				
Benzo(b)fluoranthene				
Benzo(k)fluoranthene				
Benzo(a)pyrene				
Indeno(1,2,3-cd)pyrene				
Dibenzo(a,h)anthracene				
Benzo(g,h,i)perylene				
Tentatively Identified Compounds				

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB02-20-0999	SB02-30-0999	SB02-40-0999	SB02-48-0999	SB02-48D-0999 Duplicate
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB02-20-0999	SB02-30-0999	SB02-40-0999	SB02-48-0999	SB02-48D-0999 Duplicate
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB03-20-0999	SB03-30-0999	SB03-40-0999	SB03-48-0999	FBBP-091599
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB03-20-0999	SB03-30-0999	SB03-40-0999	SB03-48-0999	FBBP-091599
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS			
	SAMPLE DESIGNATION		
COMPOUND	SB04-30-0999	SB04-40-0999	SB04-50-0999
Phenol			
bis(2-Chloroethyl)ether			
2-Chlorophenol			
1,3-Dichlorobenzene			
1,4-Dichlorobenzene			
1,2-Dichlorobenzene			
2-Methylphenol			
bis(2-Chloroisopropyl)Ether			
4-Methylphenol			
N-Nitroso-Di-n-propylamine			
Hexachloroethane			
Nitrobenzene			
Isophorone			
2-Nitrophenol			
2,4-Dimethylphenol			
bis(2-Chloroethoxy)Methane			
2,4-Dichlorophenol			
1,2,4-Trichlorobenzene			
Naphthalene			
4-Chloroaniline			
Hexachlorobutadiene			
4-Chloro-3-methylphenol			
2-Methylnaphthalene			
Hexachlorocyclopentadiene			
2,4,6-Trichlorophenol			
2,4,5-Trichlorophenol			
2-Chloronaphthalene			
2-Nitroaniline			
Dimethyl Phthalate			
Acenaphthylene			
2,6-Dinitrotoluene			
3-Nitroaniline			
Acenaphthene			
2,4-Dinitrophenol			

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS			
	SAMPLE DESIGNATION		
COMPOUND	SB04-30-0999	SB04-40-0999	SB04-50-0999
4-Nitrophenol			
Dibenzofuran			
2,4-Dinitrotoluene			
Diethylphthalate			
4-Chlorophenyl-phenylether			
Fluorene			
4-Nitroaniline			
4,6-Dinitro-2-methylphenol			
N-Nitrosodiphenylamine (1)			
4-Bromophenyl-phenylether			
Hexachlorobenzene			
Pentachlorophenol			
Phenanthrene			
Anthracene			
Benzidine			
Di-n-butylphthalate			
Fluoranthene			
Pyrene			
Butylbenzylphthalate			
3-Methylphenol			
2,6-Dichlorophenol			
3,3'-Dichlorobenzidine			
Benzo(a)anthracene			
Chrysene			
bis(2-ethylhexyl)phthalate			
Di-n-octyl phthalate			
Benzo(b)fluoranthene			
Benzo(k)fluoranthene			
Benzo(a)pyrene			
Indeno(1,2,3-cd)pyrene			
Dibenzo(a,h)anthracene			
Benzo(g,h,i)perylene			
Tentatively Identified Compounds			

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB05-10-1099	SB05-20-1099	SB05-30-1099	SB05-40-1099	SB05-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB05-10-1099	SB05-20-1099	SB05-30-1099	SB05-40-1099	SB05-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS						
	SAMPLE DESIGNATION					
COMPOUND	SB06-03-0999	SB06-10-0999	SB06-20-0999	SB06-30-0999	SB06-40-0999	SB06-50-0999
Phenol						
bis(2-Chloroethyl)ether						
2-Chlorophenol						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
1,2-Dichlorobenzene						
2-Methylphenol						
bis(2-Chloroisopropyl)Ether						
4-Methylphenol						
N-Nitroso-Di-n-propylamine						
Hexachloroethane						
Nitrobenzene						
Isophorone						
2-Nitrophenol						
2,4-Dimethylphenol						
bis(2-Chloroethoxy)Methane						
2,4-Dichlorophenol						
1,2,4-Trichlorobenzene						
Naphthalene						
4-Chloroaniline						
Hexachlorobutadiene						
4-Chloro-3-methylphenol						
2-Methylnaphthalene						
Hexachlorocyclopentadiene						
2,4,6-Trichlorophenol						
2,4,5-Trichlorophenol						
2-Chloronaphthalene						
2-Nitroaniline						
Dimethyl Phthalate						
Acenaphthylene						
2,6-Dinitrotoluene						
3-Nitroaniline						
Acenaphthene						
2,4-Dinitrophenol						

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS						
	SAMPLE DESIGNATION					
COMPOUND	SB06-03-0999	SB06-10-0999	SB06-20-0999	SB06-30-0999	SB06-40-0999	SB06-50-0999
4-Nitrophenol						
Dibenzofuran						
2,4-Dinitrotoluene						
Diethylphthalate						
4-Chlorophenyl-phenylether						
Fluorene						
4-Nitroaniline						
4,6-Dinitro-2-methylphenol						
N-Nitrosodiphenylamine (1)						
4-Bromophenyl-phenylether						
Hexachlorobenzene						
Pentachlorophenol						
Phenanthrene						
Anthracene						
Benzidine	1100					
Di-n-butylphthalate						
Fluoranthene						
Pyrene						
Butylbenzylphthalate						
3-Methylphenol						
2,6-Dichlorophenol						
3,3'-Dichlorobenzidine						
Benzo(a)anthracene						
Chrysene						
bis(2-ethylhexyl)phthalate	720					
Di-n-octyl phthalate						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Indeno(1,2,3-cd)pyrene						
Dibenzo(a,h)anthracene						
Benzo(g,h,i)perylene						
Tentatively Identified Compounds						

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB07-10-0999	SB07-20-0999	SB07-30-0999	SB07-40-0999	SB07-50-0999
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

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SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB07-10-0999	SB07-20-0999	SB07-30-0999	SB07-40-0999	SB07-50-0999
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in micrograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS						
	SAMPLE DESIGNATION					
COMPOUND	SB08-10-0999	SB08-20-0999	SB08-20-0999 MS/MSD	SB08-30-0999	SB08-40-0999	SB08-50-0999
Phenol						
bis(2-Chloroethyl)ether						
2-Chlorophenol						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
1,2-Dichlorobenzene						
2-Methylphenol						
bis(2-Chloroisopropyl)Ether						
4-Methylphenol						
N-Nitroso-Di-n-propylamine						
Hexachloroethane						
Nitrobenzene						
Isophorone						
2-Nitrophenol						
2,4-Dimethylphenol						
bis(2-Chloroethoxy)Methane						
2,4-Dichlorophenol						
1,2,4-Trichlorobenzene						
Naphthalene						
4-Chloroaniline						
Hexachlorobutadiene						
4-Chloro-3-methylphenol						
2-Methylnaphthalene						
Hexachlorocyclopentadiene						
2,4,6-Trichlorophenol						
2,4,5-Trichlorophenol						
2-Chloronaphthalene						
2-Nitroaniline						
Dimethyl Phthalate						
Acenaphthylene						
2,6-Dinitrotoluene						
3-Nitroaniline						
Acenaphthene						
2,4-Dinitrophenol						

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BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS						
	SAMPLE DESIGNATION					
COMPOUND	SB08-10-0999	SB08-20-0999	SB08-20-0999 MS/MSD	SB08-30-0999	SB08-40-0999	SB08-50-0999
4-Nitrophenol						
Dibenzofuran						
2,4-Dinitrotoluene						
Diethylphthalate						
4-Chlorophenyl-phenylether						
Fluorene						
4-Nitroaniline						
4,6-Dinitro-2-methylphenol						
N-Nitrosodiphenylamine (1)						
4-Bromophenyl-phenylether						
Hexachlorobenzene						
Pentachlorophenol						
Phenanthrene						
Anthracene						
Benzidine						840
Di-n-butylphthalate						
Fluoranthene						
Pyrene						
Butylbenzylphthalate						
3-Methylphenol						
2,6-Dichlorophenol						
3,3'-Dichlorobenzidine						
Benzo(a)anthracene						
Chrysene						
bis(2-ethylhexyl)phthalate						480
Di-n-octyl phthalate						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Indeno(1,2,3-cd)pyrene						
Dibenzo(a,h)anthracene						
Benzo(g,h,i)perylene						
Tentatively Identified Compounds						

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS			
	SAMPLE DESIGNATION		
COMPOUND	SB09-20-0999	SB09-30-0999	SB09-40-0999
Phenol			
bis(2-Chloroethyl)ether			
2-Chlorophenol			
1,3-Dichlorobenzene			
1,4-Dichlorobenzene			
1,2-Dichlorobenzene			
2-Methylphenol			
bis(2-Chloroisopropyl)Ether			
4-Methylphenol			
N-Nitroso-Di-n-propylamine			
Hexachloroethane			
Nitrobenzene			
Isophorone			
2-Nitrophenol			
2,4-Dimethylphenol			
bis(2-Chloroethoxy)Methane			
2,4-Dichlorophenol			
1,2,4-Trichlorobenzene			
Naphthalene			
4-Chloroaniline			
Hexachlorobutadiene			
4-Chloro-3-methylphenol			
2-Methylnaphthalene			
Hexachlorocyclopentadiene			
2,4,6-Trichlorophenol			
2,4,5-Trichlorophenol			
2-Chloronaphthalene			
2-Nitroaniline			
Dimethyl Phthalate			
Acenaphthylene			
2,6-Dinitrotoluene			
3-Nitroaniline			
Acenaphthene			
2,4-Dinitrophenol			

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS			
SAMPLE DESIGNATION			
COMPOUND	SB09-20-0999	SB09-30-0999	SB09-40-0999
4-Nitrophenol			
Dibenzofuran			
2,4-Dinitrotoluene			
Diethylphthalate			
4-Chlorophenyl-phenylether			
Fluorene			
4-Nitroaniline			
4,6-Dinitro-2-methylphenol			
N-Nitrosodiphenylamine (1)			
4-Bromophenyl-phenylether			
Hexachlorobenzene			
Pentachlorophenol			
Phenanthrene			
Anthracene			
Benzidine			
Di-n-butylphthalate			
Fluoranthene			
Pyrene			
Butylbenzylphthalate			
3-Methylphenol			
2,6-Dichlorophenol			
3,3'-Dichlorobenzidine			
Benzo(a)anthracene			
Chrysene			
bis(2-ethylhexyl)phthalate			
Di-n-octyl phthalate			
Benzo(b)fluoranthene			
Benzo(k)fluoranthene			
Benzo(a)pyrene			
Indeno(1,2,3-cd)pyrene			
Dibenzo(a,h)anthracene			
Benzo(g,h,i)perylene			
Tentatively Identified Compounds			

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS							
	SAMPLE DESIGNATION						
COMPOUND	SB10-3.5-0999	SB10-24-0999	SB10-30-0999	SB10-35-0999	SB10-40-0999	SB10-50-0999	FB-BP-092899
Phenol							
bis(2-Chloroethyl)ether							
2-Chlorophenol							
1,3-Dichlorobenzene							
1,4-Dichlorobenzene							
1,2-Dichlorobenzene							
2-Methylphenol							
bis(2-Chloroisopropyl)Ether							
4-Methylphenol							
N-Nitroso-Di-n-propylamine							
Hexachloroethane							
Nitrobenzene							
Isophorone							
2-Nitrophenol							
2,4-Dimethylphenol							
bis(2-Chloroethoxy)Methane							
2,4-Dichlorophenol							
1,2,4-Trichlorobenzene							
Naphthalene							
4-Chloroaniline							
Hexachlorobutadiene							
4-Chloro-3-methylphenol							
2-Methylnaphthalene							
Hexachlorocyclopentadiene							
2,4,6-Trichlorophenol							
2,4,5-Trichlorophenol							
2-Chloronaphthalene							
2-Nitroaniline							
Dimethyl Phthalate							
Acenaphthylene							
2,6-Dinitrotoluene							
3-Nitroaniline							
Acenaphthene							
2,4-Dinitrophenol							

APPENDIX D
BETHPAGE - NWRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS							
	SAMPLE DESIGNATION						
COMPOUND	SB10-3.5-0999	SB10-24-0999	SB10-30-0999	SB10-35-0999	SB10-40-0999	SB10-50-0999	FB-BP-092899
4-Nitrophenol							
Dibenzofuran							
2,4-Dinitrotoluene							
Diethylphthalate							
4-Chlorophenyl-phenylether							
Fluorene							
4-Nitroaniline							
4,6-Dinitro-2-methylphenol							
N-Nitrosodiphenylamine (1)							
4-Bromophenyl-phenylether							
Hexachlorobenzene							
Pentachlorophenol							
Phenanthrene				1500			
Anthracene							
Benzidine							
Di-n-butylphthalate							
Fluoranthene		460		3100			
Pyrene		390		2400			
Butylbenzylphthalate							
3-Methylphenol							
2,6-Dichlorophenol							
3,3'-Dichlorobenzidine							
Benzo(a)anthracene				1200			
Chrysene				1300			
bis(2-ethylhexyl)phthalate						560	
Di-n-octyl phthalate							
Benzo(b)fluoranthene				1200			
Benzo(k)fluoranthene				1300			
Benzo(a)pyrene				1000			
Indeno(1,2,3-cd)pyrene							
Dibenzo(a,h)anthracene							
Benzo(g,h,i)perylene							
Tentatively Identified Compounds							

All results in micrograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS									
	SAMPLE DESIGNATION								
COMPOUND	SB11-10-1099	SB11-20-1099	SB11-30-1099	SB11-40-1099	SB11-40D-1099 Duplicate	SB11-50-1099	FB-102599	FB102699	SB11R-30MS-1099
Phenol									
bis(2-Chloroethyl)ether									
2-Chlorophenol									
1,3-Dichlorobenzene									
1,4-Dichlorobenzene									
1,2-Dichlorobenzene									
2-Methylphenol									
bis(2-Chloroisopropyl)Ether									
4-Methylphenol									
N-Nitroso-Di-n-propylamine									
Hexachloroethane									
Nitrobenzene									
Isophorone									
2-Nitrophenol									
2,4-Dimethylphenol									
bis(2-Chloroethoxy)Methane									
2,4-Dichlorophenol									
1,2,4-Trichlorobenzene									
Naphthalene									
4-Chloroaniline									
Hexachlorobutadiene									
4-Chloro-3-methylphenol									
2-Methylnaphthalene									
Hexachlorocyclopentadiene									
2,4,6-Trichlorophenol									
2,4,5-Trichlorophenol									
2-Chloronaphthalene									
2-Nitroaniline									
Dimethyl Phthalate									
Acenaphthylene									
2,6-Dinitrotoluene									
3-Nitroaniline									
Acenaphthene									
2,4-Dinitrophenol									

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BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS									
	SAMPLE DESIGNATION								
COMPOUND	SB11-10-1099	SB11-20-1099	SB11-30-1099	SB11-40-1099	SB11-40D-1099 Duplicate	SB11-50-1099	FB-102599	FB102999	SB11R-30MS-1099
4-Nitrophenol									
Dibenzofuran									
2,4-Dinitrotoluene									
Diethylphthalate									
4-Chlorophenyl-phenylether									
Fluorene									
4-Nitroaniline									
4,6-Dinitro-2-methylphenol									
N-Nitrosodiphenylamine (1)									
4-Bromophenyl-phenylether									
Hexachlorobenzene									
Pentachlorophenol									
Phenanthrene									
Anthracene									
Benzidine									
Di-n-butylphthalate									
Fluoranthene									
Pyrene									
Butylbenzylphthalate									
3-Methylphenol									
2,6-Dichlorophenol									
3,3'-Dichlorobenzidine									
Benzo(a)anthracene									
Chrysene									
bis(2-ethylhexyl)phthalate									
Di-n-octyl phthalate									
Benzo(b)fluoranthene									
Benzo(k)fluoranthene									
Benzo(a)pyrene									
Indeno(1,2,3-cd)pyrene									
Dibenzo(a,h)anthracene									
Benzo(g,h,i)perylene									
Tentatively Identified Compounds									

All results in micrograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB12-20-1099	SB12-30-1099	SB12-30D-1099 Duplicate	SB12-40-1099	SB12-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB12-20-1099	SB12-30-1099	SB12-30D-1099 Duplicate	SB12-40-1099	SB12-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB13-10-1099	SB13-20-1099	SB13-30-1099	SB13-40-1099	SB13-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
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SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB13-10-1099	SB13-20-1099	SB13-30-1099	SB13-40-1099	SB13-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS				
	SAMPLE DESIGNATION			
COMPOUND	SB14-20-1099	SB14-30-1099	SB14-40-1099	SB14-50-1099
Phenol				
bis(2-Chloroethyl)ether				
2-Chlorophenol				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				
2-Methylphenol				
bis(2-Chloroisopropyl)Ether				
4-Methylphenol				
N-Nitroso-Di-n-propylamine				
Hexachloroethane				
Nitrobenzene				
Isophorone				
2-Nitrophenol				
2,4-Dimethylphenol				
bis(2-Chloroethoxy)Methane				
2,4-Dichlorophenol				
1,2,4-Trichlorobenzene				
Naphthalene				
4-Chloroaniline				
Hexachlorobutadiene				
4-Chloro-3-methylphenol				
2-Methylnaphthalene				
Hexachlorocyclopentadiene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenol				
2-Chloronaphthalene				
2-Nitroaniline				
Dimethyl Phthalate				
Acenaphthylene				
2,6-Dinitrotoluene				
3-Nitroaniline				
Acenaphthene				
2,4-Dinitrophenol				

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SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS				
	SAMPLE DESIGNATION			
COMPOUND	SB14-20-1099	SB14-30-1099	SB14-40-1099	SB14-50-1099
4-Nitrophenol				
Dibenzofuran				
2,4-Dinitrotoluene				
Diethylphthalate				
4-Chlorophenyl-phenylether				
Fluorene				
4-Nitroaniline				
4,6-Dinitro-2-methylphenol				
N-Nitrosodiphenylamine (1)				
4-Bromophenyl-phenylether				
Hexachlorobenzene				
Pentachlorophenol				
Phenanthrene				
Anthracene				
Benzidine				
Di-n-butylphthalate				
Fluoranthene				
Pyrene				
Butylbenzylphthalate				
3-Methylphenol				
2,6-Dichlorophenol				
3,3'-Dichlorobenzidine				
Benzo(a)anthracene				
Chrysene				
bis(2-ethylhexyl)phthalate				
Di-n-octyl phthalate				
Benzo(b)fluoranthene				
Benzo(k)fluoranthene				
Benzo(a)pyrene				
Indeno(1,2,3-cd)pyrene				
Dibenzo(a,h)anthracene				
Benzo(g,h,i)perylene				
Tentatively Identified Compounds				

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB15-10-1099	SB15-20-1099	SB15-30-1099	SB15-40-1099	SB15-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

COMPOUND	SB15-10-1099	SB15-20-1099	SB15-30-1099	SB15-40-1099	SB15-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB16-10-1099	SB16-20-1099	SB16-30-1099	SB16-40-1099	SB16-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB16-10-1099	SB16-20-1099	SB16-30-1099	SB16-40-1099	SB16-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,I)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS						
	SAMPLE DESIGNATION					
COMPOUND	SB17-10-1099	SB17-10MS-1099	SB17-20-1099	SB17-30-1099	SB17-40-1099	SB17-50-1099
Phenol						
bis(2-Chloroethyl)ether						
2-Chlorophenol						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
1,2-Dichlorobenzene						
2-Methylphenol						
bis(2-Chloroisopropyl)Ether						
4-Methylphenol						
N-Nitroso-Di-n-propylamine						
Hexachloroethane						
Nitrobenzene						
Isophorone						
2-Nitrophenol						
2,4-Dimethylphenol						
bis(2-Chloroethoxy)Methane						
2,4-Dichlorophenol						
1,2,4-Trichlorobenzene						
Naphthalene						
4-Chloroaniline						
Hexachlorobutadiene						
4-Chloro-3-methylphenol						
2-Methylnaphthalene						
Hexachlorocyclopentadiene						
2,4,6-Trichlorophenol						
2,4,5-Trichlorophenol						
2-Chloronaphthalene						
2-Nitroaniline						
Dimethyl Phthalate						
Acenaphthylene						
2,6-Dinitrotoluene						
3-Nitroaniline						
Acenaphthene						
2,4-Dinitrophenol						

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS						
	SAMPLE DESIGNATION					
COMPOUND	SB17-10-1099	SB17-10MS-1099	SB17-20-1099	SB17-30-1099	SB17-40-1099	SB17-50-1099
4-Nitrophenol						
Dibenzofuran						
2,4-Dinitrotoluene						
Diethylphthalate						
4-Chlorophenyl-phenylether						
Fluorene						
4-Nitroaniline						
4,6-Dinitro-2-methylphenol						
N-Nitrosodiphenylamine (1)						
4-Bromophenyl-phenylether						
Hexachlorobenzene						
Pentachlorophenol						
Phenanthrene						
Anthracene						
Benzidine						800
Di-n-butylphthalate						
Fluoranthene						
Pyrene						
Butylbenzylphthalate						
3-Methylphenol						
2,6-Dichlorophenol						
3,3'-Dichlorobenzidine						
Benzo(a)anthracene						
Chrysene						
bis(2-ethylhexyl)phthalate						
Di-n-octyl phthalate						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Indeno(1,2,3-od)pyrene						
Dibenzo(a,h)anthracene						
Benzo(g,h,i)perylene						
Tentatively Identified Compounds						

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB18-10-1099	SB18-20-1099	SB18-30-1099	SB18-40-1099	SB18-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB18-10-1099	SB18-20-1099	SB18-30-1099	SB18-40-1099	SB18-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB19-10-1099	SB19-20-1099	SB19-30-1099	SB19-40-1099	SB19-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB19-10-1099	SB19-20-1099	SB19-30-1099	SB19-40-1099	SB19-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB20-10-1099	SB20-20-1099	SB20-30-1099	SB20-40-1099	SB20-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB20-10-1099	SB20-20-1099	SB20-30-1099	SB20-40-1099	SB20-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS						
	SAMPLE DESIGNATION					
COMPOUND	SB21-10-1099	SB21-20-1099	SB21-30-1099	SB21-40-1099	SB21-40D-1099 Duplicate	SB21-50-1099
Phenol						
bis(2-Chloroethyl)ether						
2-Chlorophenol						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
1,2-Dichlorobenzene						
2-Methylphenol						
bis(2-Chloroisopropyl)Ether						
4-Methylphenol						
N-Nitroso-Di-n-propylamine						
Hexachloroethane						
Nitrobenzene						
Isophorone						
2-Nitrophenol						
2,4-Dimethylphenol						
bis(2-Chloroethoxy)Methane						
2,4-Dichlorophenol						
1,2,4-Trichlorobenzene						
Naphthalene						
4-Chloroaniline						
Hexachlorobutadiene						
4-Chloro-3-methylphenol						
2-Methylnaphthalene						
Hexachlorocyclopentadiene						
2,4,6-Trichlorophenol						
2,4,5-Trichlorophenol						
2-Chloronaphthalene						
2-Nitroaniline						
Dimethyl Phthalate						
Acenaphthylene						
2,6-Dinitrotoluene						
3-Nitroaniline						
Acenaphthene						
2,4-Dinitrophenol						

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS						
	SAMPLE DESIGNATION					
COMPOUND	SB21-10-1099	SB21-20-1099	SB21-30-1099	SB21-40-1099	SB21-40D-1099 Duplicate	SB21-50-1099
4-Nitrophenol						
Dibenzofuran						
2,4-Dinitrotoluene						
Diethylphthalate						
4-Chlorophenyl-phenylether						
Fluorene						
4-Nitroaniline						
4,6-Dinitro-2-methylphenol						
N-Nitrosodiphenylamine (1)						
4-Bromophenyl-phenylether						
Hexachlorobenzene						
Pentachlorophenol						
Phenanthrene						
Anthracene						
Benzidine						
Di-n-butylphthalate						
Fluoranthene						
Pyrene						
Butylbenzylphthalate						
3-Methylphenol						
2,6-Dichlorophenol						
3,3'-Dichlorobenzidine						
Benzo(a)anthracene						
Chrysene						
bis(2-ethylhexyl)phthalate						
Di-n-octyl phthalate						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Indeno(1,2,3-cd)pyrene						
Dibenzo(a,h)anthracene						
Benzo(g,h,i)perylene						
Tentatively Identified Compounds						

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS							
	SAMPLE DESIGNATION						
COMPOUND	SB22-10-1099	SB22-20-1099	SB22-30-1099	SB22-30MS/MSD	SB22-40-1099	SB22-50-1099	FB101599
Phenol							
bis(2-Chloroethyl)ether							
2-Chlorophenol							
1,3-Dichlorobenzene							
1,4-Dichlorobenzene							
1,2-Dichlorobenzene							
2-Methylphenol							
bis(2-Chloroisopropyl)Ether							
4-Methylphenol							
N-Nitroso-Di-n-propylamine							
Hexachloroethane							
Nitrobenzene							
Isophorone							
2-Nitrophenol							
2,4-Dimethylphenol							
bis(2-Chloroethoxy)Methane							
2,4-Dichlorophenol							
1,2,4-Trichlorobenzene							
Naphthalene							
4-Chloroaniline							
Hexachlorobutadiene							
4-Chloro-3-methylphenol							
2-Methylnaphthalene							
Hexachlorocyclopentadiene							
2,4,6-Trichlorophenol							
2,4,5-Trichlorophenol							
2-Chloronaphthalene							
2-Nitroaniline							
Dimethyl Phthalate							
Acenaphthylene							
2,6-Dinitrotoluene							
3-Nitroaniline							
Acenaphthene							
2,4-Dinitrophenol							

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS							
	SAMPLE DESIGNATION						
COMPOUND	SB22-10-1099	SB22-20-1099	SB22-30-1099	SB22-30MS/MSD	SB22-40-1099	SB22-50-1099	FB101599
4-Nitrophenol							
Dibenzofuran							
2,4-Dinitrotoluene							
Diethylphthalate							
4-Chlorophenyl-phenylether							
Fluorene							
4-Nitroaniline							
4,6-Dinitro-2-methylphenol							
N-Nitrosodiphenylamine (1)							
4-Bromophenyl-phenylether							
Hexachlorobenzene							
Pentachlorophenol							
Phenanthrene							
Anthracene							
Benzidine							
Di-n-butylphthalate							
Fluoranthene							
Pyrene							
Butylbenzylphthalate							
3-Methylphenol							
2,6-Dichlorophenol							
3,3'-Dichlorobenzidine							
Benzo(a)anthracene							
Chrysene							
bis(2-ethylhexyl)phthalate							
Di-n-octyl phthalate							
Benzo(b)fluoranthene							
Benzo(k)fluoranthene							
Benzo(a)pyrene							
Indeno(1,2,3-cd)pyrene							
Dibenzo(a,h)anthracene							
Benzo(g,h,i)perylene							
Tentatively Identified Compounds							

All results in micrograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB23-10-1099	SB23-20-1099	SB23-30-1099	SB23-40-1099	SB23-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB23-10-1099	SB23-20-1099	SB23-30-1099	SB23-40-1099	SB23-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB24-14-0999	SB24-20-0999	SB24-30-0999	SB24-40-0999	SB24-50-0999
Phenol	24000				
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB24-14-0999	SB24-20-0999	SB24-30-0999	SB24-40-0999	SB24-50-0999
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB25-10-1099	SB25-20-1099	SB25-30-1099	SB25-40-1099	SB25-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB25-10-1099	SB25-20-1099	SB25-30-1099	SB25-40-1099	SB25-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB26-10-0999	SB26-20-0999	SB26-30-0999	SB26-40-0999	SB26-50-0999
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB26-10-0999	SB26-20-0999	SB26-30-0999	SB26-40-0999	SB26-50-0999
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB27-10-1099	SB27-20-1099	SB27-30-1099	SB27-40-1099	SB27-50-1099
Phenol					
bis(2-Chloroethyl)ether					
2-Chlorophenol					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
2-Methylphenol					
bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
N-Nitroso-Di-n-propylamine					
Hexachloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					
2,4-Dimethylphenol					
bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene					
Naphthalene					
4-Chloroaniline					
Hexachlorobutadiene					
4-Chloro-3-methylphenol					
2-Methylnaphthalene					
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Dimethyl Phthalate					
Acenaphthylene					
2,6-Dinitrotoluene					
3-Nitroaniline					
Acenaphthene					
2,4-Dinitrophenol					

APPENDIX D
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK

TARGET COMPOUND LIST SEMIVOLATILE ORGANICS					
	SAMPLE DESIGNATION				
COMPOUND	SB27-10-1099	SB27-20-1099	SB27-30-1099	SB27-40-1099	SB27-50-1099
4-Nitrophenol					
Dibenzofuran					
2,4-Dinitrotoluene					
Diethylphthalate					
4-Chlorophenyl-phenylether					
Fluorene					
4-Nitroaniline					
4,6-Dinitro-2-methylphenol					
N-Nitrosodiphenylamine (1)					
4-Bromophenyl-phenylether					
Hexachlorobenzene					
Pentachlorophenol					
Phenanthrene					
Anthracene					
Benzidine					
Di-n-butylphthalate					
Fluoranthene					
Pyrene					
Butylbenzylphthalate					
3-Methylphenol					
2,6-Dichlorophenol					
3,3'-Dichlorobenzidine					
Benzo(a)anthracene					
Chrysene					
bis(2-ethylhexyl)phthalate					
Di-n-octyl phthalate					
Benzo(b)fluoranthene					
Benzo(k)fluoranthene					
Benzo(a)pyrene					
Indeno(1,2,3-cd)pyrene					
Dibenzo(a,h)anthracene					
Benzo(g,h,i)perylene					
Tentatively Identified Compounds					

All results in mircograms per kilogram.
Blank indicates compound was not detected.
J indicates an estimated concentration.

APPENDIX E

ANALYTICAL DATA RESULTS
PCB/PESTICIDES

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 9 AND 10, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs				
	SAMPLE DESIGNATION			
COMPOUND	SB01-20-0999	SB01-30-0999	SB01-40-0999	SB01-48-0999
alpha-BHC				
beta-BHC				
delta-BHC				
gamma-BHC (Lindane)				
Heptachlor				
Aldrin				
Heptachlor epoxide				
Endosulfan I				
Dieldrin				
4,4-DDE				
Endrin				
Endosulfan II				
4,4-DDD				
Endosulfan Sulfate				
4,4-DDT				
Methoxychlor				
Endrin Ketone				
Endrin aldehyde				
alpha-Chlordane				
gamma-Chlordane				
Toxaphene				
Aroclor-1016				
Aroclor-1221				
Aroclor-1232				
Aroclor-1242				
Aroclor-1248				
Aroclor-1254				
Aroclor-1260				

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitati

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 13 AND 14, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
SAMPLE DESIGNATION					
COMPOUND	SB02-20-0999	SB02-30-0999	SB02-40-0999	SB02-48-0999	SB02-48D-0999 Duplicate
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 15 AND 20, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs				
	SAMPLE DESIGNATION			
COMPOUND	SB03-20-0999	SB03-30-0999	SB03-40-0999	SB03-48-0999
alpha-BHC				
beta-BHC				
delta-BHC				
gamma-BHC (Lindane)				
Heptachlor				
Aldrin				
Heptachlor epoxide				
Endosulfan I				
Dieldrin				
4,4-DDE				
Endrin				
Endosulfan II				
4,4-DDD				
Endosulfan Sulfate				
4,4-DDT				
Methoxychlor				
Endrin Ketone				
Endrin aldehyde				
alpha-Chlordane				
gamma-Chlordane				
Toxaphene				
Aroclor-1016				
Aroclor-1221				
Aroclor-1232				
Aroclor-1242				
Aroclor-1248				
Aroclor-1254				
Aroclor-1260				

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 22, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs			
SAMPLE DESIGNATION			
COMPOUND	SB04-30-0999	SB04-40-0999	SB04-50-0999
alpha-BHC			
beta-BHC			
delta-BHC			
gamma-BHC (Lindane)			
Heptachlor			
Aldrin			
Heptachlor epoxide			
Endosulfan I			
Dieldrin			
4,4-DDE			
Endrin			
Endosulfan II			
4,4-DDD			
Endosulfan Sulfate			
4,4-DDT			
Methoxychlor			
Endrin Ketone			
Endrin aldehyde			
alpha-Chlordane			
gamma-Chlordane			
Toxaphene			
Aroclor-1016			
Aroclor-1221			
Aroclor-1232			
Aroclor-1242			
Aroclor-1248			
Aroclor-1254			
Aroclor-1260			

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 26,1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB05-10-1099	SB05-20-1099	SB05-30-1099	SB05-40-1099	SB05-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 24, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs						
	SAMPLE DESIGNATION					
COMPOUND	SB06-03-0999	SB06-10-0999	SB06-20-0999	SB06-30-0999	SB06-40-0999	SB06-50-0999
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor						
Aldrin						
Heptachlor epoxide						
Endosulfan I						
Dieldrin						
4,4-DDE						
Endrin						
Endosulfan II						
4,4-DDD						
Endosulfan Sulfate						
4,4-DDT						
Methoxychlor						
Endrin Ketone						
Endrin aldehyde						
alpha-Chlordane						
gamma-Chlordane						
Toxaphene						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						180000
Aroclor-1248	190000	140000	330			72000
Aroclor-1254						
Aroclor-1260						

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 23, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB07-10-0999	SB07-20-0999	SB07-30-0999	SB07-40-0999	SB07-50-0999
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 27, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs						
	SAMPLE DESIGNATION					
COMPOUND	SB08-10-0999	SB08-20-0999	SB08-20-0999 MS/MSD	SB08-30-0999	SB08-40-0999	SB08-50-0999
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor						
Aldrin						
Heptachlor epoxide						
Endosulfan I						
Dieldrin						
4,4-DDE						
Endrin						
Endosulfan II						
4,4-DDD						
Endosulfan Sulfate						
4,4-DDT						
Methoxychlor						
Endrin Ketone						
Endrin aldehyde						
alpha-Chlordane						
gamma-Chlordane						
Toxaphene						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248	12000	740	1000			57000
Aroclor-1254						
Aroclor-1260						

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 21, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs			
	SAMPLE DESIGNATION		
COMPOUND	SB09-20-0999	SB09-30-0999	SB09-40-0999
alpha-BHC			
beta-BHC			
delta-BHC			
gamma-BHC (Lindane)			
Heptachlor			
Aldrin			
Heptachlor epoxide			
Endosulfan I			
Dieldrin			
4,4-DDE			
Endrin			
Endosulfan II			
4,4-DDD			
Endosulfan Sulfate			
4,4-DDT			
Methoxychlor			
Endrin Ketone			
Endrin aldehyde			
alpha-Chlordane			
gamma-Chlordane			
Toxaphene			
Aroclor-1016			
Aroclor-1221			
Aroclor-1232			
Aroclor-1242			
Aroclor-1248			
Aroclor-1254			
Aroclor-1260			

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 28, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs						
	SAMPLE DESIGNATION					
COMPOUND	SB10-3.5-1099	SB10-24-0999	SB10-30-0999	SB10-35-0999	SB10-40-0999	SB10-50-0999
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor						
Aldrin						
Heptachlor epoxide						
Endosulfan I						
Dieldrin						
4,4-DDE						
Endrin						
Endosulfan II						
4,4-DDD						
Endosulfan Sulfate						
4,4-DDT						
Methoxychlor						
Endrin Ketone						
Endrin aldehyde						
Chlordane			100		130	
alpha-Chlordane						
gamma-Chlordane						
Toxaphene						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248		610		3500		
Aroclor-1254						
Aroclor-1260						

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 25, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs								
	SAMPLE DESIGNATION							
COMPOUND	SB11-10-1099	SB11R-10-1099	SB11R-20-1099	SB11-30-1099	SB11R-30MS-1099	SB11R-40-1099	SB11R-40D-1099 Duplicate	SB11R-50-1099
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC (Lindane)								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4-DDE								
Endrin								
Endosulfan II								
4,4-DDD								
Endosulfan Sulfate								
4,4-DDT								
Methoxychlor								
Endrin Ketone								
Endrin aldehyde								
alpha-Chlordane								
gamma-Chlordane								
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248						1400	1400	
Aroclor-1254								
Aroclor-1260								

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 22, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB12-20-1099	SB12-30-1099	SB12-30D-1099 Duplicate	SB12-40-1099	SB12-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248	540000	790000	820000	950	48000
Aroclor-1254					
Aroclor-1260					

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 6, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs				
	SAMPLE DESIGNATION			
COMPOUND	SB13-20-0999	SB13-30-0999	SB13-40-0999	SB13-50-0999
alpha-BHC				
beta-BHC				
delta-BHC				
gamma-BHC (Lindane)				
Heptachlor				
Aldrin				
Heptachlor epoxide				
Endosulfan I				
Dieldrin				
4,4-DDE				
Endrin				
Endosulfan II				
4,4-DDD				
Endosulfan Sulfate				
4,4-DDT				
Methoxychlor				
Endrin Ketone				
Endrin aldehyde				
alpha-Chlordane				
gamma-Chlordane				
Toxaphene				
Aroclor-1016				
Aroclor-1221				
Aroclor-1232				
Aroclor-1242				
Aroclor-1248	560			
Aroclor-1254				
Aroclor-1260				

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 19, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs				
	SAMPLE DESIGNATION			
COMPOUND	SB14-20-1099	SB14-30-1099	SB14-40-1099	SB14-50-1099
alpha-BHC				
beta-BHC				
delta-BHC				
gamma-BHC (Lindane)				
Heptachlor				
Aldrin				
Heptachlor epoxide				
Endosulfan I				
Dieldrin				
4,4-DDE				
Endrin				
Endosulfan II				
4,4-DDD				
Endosulfan Sulfate				
4,4-DDT				
Methoxychlor				
Endrin Ketone				
Endrin aldehyde				
alpha-Chlordane				
gamma-Chlordane				
Toxaphene				
Aroclor-1016				
Aroclor-1221				
Aroclor-1232				
Aroclor-1242				
Aroclor-1248	6100	1600		
Aroclor-1254				
Aroclor-1260				

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 8 and 11, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB15-10-1099	SB15-20-1099	SB15-30-1099	SB15-40-1099	SB15-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248	2600				
Aroclor-1254					
Aroclor-1260					

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 21, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB16-10-1099	SB16-20-1099	SB16-30-1099	SB16-40-1099	SB16-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
Chlordane	400	60			
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 26, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs						
	SAMPLE DESIGNATION					
COMPOUND	SB17-10-1099	SB17-10MS-1099 MS/MSD	SB17-20-1099	SB17-30-1099	SB17-40-1099	SB17-50-1099
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor						
Aldrin						
Heptachlor epoxide						
Endosulfan I						
Dieldrin						
4,4-DDE						
Endrin						
Endosulfan II						
4,4-DDD						
Endosulfan Sulfate						
4,4-DDT						
Methoxychlor						
Endrin Ketone						
Endrin aldehyde						
alpha-Chlordane						
gamma-Chlordane						
Toxaphene						
Aroclor-1016						82000
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248						
Aroclor-1254						
Aroclor-1260						

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 7, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB18-10-1099	SB18-20-1099	SB18-30-1099	SB18-40-1099	SB18-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 11, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB19-10-1099	SB19-20-1099	SB19-30-1099	SB19-40-1099	SB19-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248	260	130			
Aroclor-1254					
Aroclor-1260					

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 12 AND 13, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB20-10-1099	SB20-20-1099	SB20-30-1099	SB20-40-1099	SB20-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 14 AND 15, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs						
	SAMPLE DESIGNATION					
COMPOUND	SB21-10-1099	SB21-20-1099	SB21-30-1099	SB21-40-1099	SB21-40D-1099 Duplicate	SB21-50-1099
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor						
Aldrin						
Heptachlor epoxide						
Endosulfan I						
Dieldrin						
4,4-DDE						
Endrin						
Endosulfan II						
4,4-DDD						
Endosulfan Sulfate						
4,4-DDT						
Methoxychlor						
Endrin Ketone						
Endrin aldehyde						
alpha-Chlordane						
gamma-Chlordane						
Toxaphene						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248						
Aroclor-1254						
Aroclor-1260						

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 15 AND 18, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs						
	SAMPLE DESIGNATION					
COMPOUND	SB22-10-1099	SB22-20-1099	SB22-30-1099	SB22-30MS-1099	SB22-40-1099	SB22-50-1099
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor						
Aldrin						
Heptachlor epoxide						
Endosulfan I						
Dieldrin						
4,4-DDE						
Endrin						
Endosulfan II						
4,4-DDD						
Endosulfan Sulfate						
4,4-DDT						
Methoxychlor						
Endrin Ketone						
Endrin aldehyde						
alpha-Chlordane						
gamma-Chlordane						
Toxaphene						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248						
Aroclor-1254						
Aroclor-1260						

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 19, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB23-10-1099	SB23-20-1099	SB23-30-1099	SB23-40-1099	SB23-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 29, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB24-14-0999	SB24-20-0999	SB24-30-0999	SB24-40-0999	SB24-50-0999
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248		860			
Aroclor-1254					
Aroclor-1260					

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 1 AND 4, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB25-10-1099	SB25-20-1099	SB25-30-1099	SB25-40-1099	SB25-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 30, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB26-10-0999	SB26-20-0999	SB26-30-0999	SB26-40-0999	SB26-50-0999
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:
1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX E
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 5, 1999

ANALYTICAL RESULTS FOR PESTICIDES/PCBs					
	SAMPLE DESIGNATION				
COMPOUND	SB27-10-1099	SB27-20-1099	SB27-30-1099	SB27-40-1099	SB27-50-1099
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4-DDE					
Endrin					
Endosulfan II					
4,4-DDD					
Endosulfan Sulfate					
4,4-DDT					
Methoxychlor					
Endrin Ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					

NOTES:

1. All results expressed in micrograms per kilogram (ug/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.

APPENDIX F

ANALYTICAL DATA RESULTS
RCRA METALS

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 9 AND 10, 1999

ANALYTICAL RESULTS FOR RCRA METALS				
SAMPLE DESIGNATION				
COMPOUND	SB01-20-0999	SB01-30-0999	SB01-40-0999	SB01-48-0999
Arsenic		8.7		
Barium				
Cadmium				
Chromium	7	13	6.8	2.9
Lead		3.4		3.3
Mercury				
Selenium				
Silver				

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 13 AND 14, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB02-20-0999	SB02-30-0999	SB02-40-0999	SB02-48-0999	SB02-48D-0999 Duplicate
Arsenic		32			
Barium					
Cadmium		1.8			
Chromium	6.1	42	2.6	2.3	2.8
Lead		9.3			
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 20, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB03-20-0999	SB03-30-0999	SB03-40-0999	SB03-48-0999	FBBP-091599
Arsenic		23			
Barium					
Beryllium					
Cadmium					
Chromium	5.6	35	3.1	1.7	
Lead		7.5	3		
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 22, 1999

ANALYTICAL RESULTS FOR RCRA METALS			
SAMPLE DESIGNATION			
COMPOUND	SB04-30-0999	SB04-40-0999	SB04-50-0999
Arsenic	45		
Barium		10	
Cadmium			
Chromium	47	6.8	2.9
Lead	12	5.1	
Mercury			
Selenium			
Silver			

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 26, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB05-10-1099	SB05-20-1099	SB05-30-1099	SB05-40-1099	SB05-50-1099
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Mercury					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc					
Cyanide					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 24, 1999

ANALYTICAL RESULTS FOR RCRA METALS						
	SAMPLE DESIGNATION					
COMPOUND	SB06-03-0999	SB06-10-0999	SB06-20-0999	SB06-30-0999	SB06-40-0999	SB06-50-0999
Arsenic	6.8			11	89	
Barium	58	5	11			2.5
Cadmium	16					2.5
Chromium	100	7.5	6.4	12	110	2.9
Lead	98			3.2	28	
Mercury	0.12					
Selenium						
Silver						

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 23, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB07-10-0999	SB07-20-0999	SB07-30-0999	SB07-40-0999	SB07-50-0999
Arsenic			25	37	
Barium					
Cadmium			0.5		
Chromium	9.3	5.6	32	52	5.4
Lead			7	12	
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 27, 1999

ANALYTICAL RESULTS FOR RCRA METALS						
	SAMPLE DESIGNATION					
COMPOUND	SB08-10-0999	SB08-20-0999	SB08-20-0999 MS/MSD	SB08-30-0999	SB08-40-0999	SB08-50-0999
Arsenic			22		33	
Barium			11			
Cadmium						
Chromium	4	4.4	38		71	3.2
Lead			8.5		9.4	8.2
Mercury						
Selenium						
Silver						

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 21, 1999

ANALYTICAL RESULTS FOR RCRA METALS			
	SAMPLE DESIGNATION		
COMPOUND	SB09-20-0999	SB09-30-0999	SB09-40-0999
Arsenic	7.1	15	
Barium			
Cadmium			0.62
Chromium	7.7	22	3.7
Lead	3.5	5.3	
Mercury			
Selenium			
Silver			

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 28, 1999

ANALYTICAL RESULTS FOR RCRA METALS							
	SAMPLE DESIGNATION						
COMPOUND	SB10-3.5-0999	SB10-24-0999	SB10-30-0999	SB10-35-0999	SB10-40-0999	SB10-50-0999	FB-BP-092899
Arsenic			44	6.6			
Barium		16	3.6	16	2.3	1.8	
Cadmium		11		4		0.6	
Chromium		14	52	13	1.2	2.4	
Lead		7.6	15	24			
Mercury				0.15			
Selenium							
Silver		0.6					0.03

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 25 AND 26, 1999

ANALYTICAL RESULTS FOR RCRA METALS									
	SAMPLE DESIGNATION								
COMPOUND	SB11-10-1099	SB11-20-1099	SB11-30-1099	SB11-40-1099	SB11-40D-1099 Duplicate	SB11-50-1099	FB-102599	FB102699	SB11R-30MS-1099
Arsenic			25						
Barium			4.2						
Cadmium			1.3			0.86			
Chromium	7.6	6.5	35	11	9.1	2.2			
Lead	3.4		8.6	3.3	2.8				
Mercury									
Selenium									
Silver									

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 22, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB12-20-1099	SB12-30-1099	SB12-30D-1099 Duplicate	SB12-40-1099	SB12-50-1099
Arsenic		11	19		
Barium			7.4		
Cadmium		0.59			0.81
Chromium	13	23	28	2.9	1.6
Lead	7.2	7.9	18	3.4	
Mercury					
Selenium					
Silver	1.1				

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 6, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB13-10-1099	SB13-20-1099	SB13-30-1099	SB13-40-1099	SB13-50-1099
Arsenic			40	21	
Barium		14	12		
Cadmium		5.4			
Chromium		15	44	23	5.2
Lead		3.1	16	7.2	2.8
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 19, 1999

ANALYTICAL RESULTS FOR RCRA METALS				
	SAMPLE DESIGNATION			
COMPOUND	SB14-20-1099	SB14-30-1099	SB14-40-1099	SB14-50-1099
Arsenic		16	24	
Barium				
Cadmium	1.4			
Chromium	14	43	54	3
Lead	5.1	7.2	8.2	
Mercury				
Selenium				
Silver				

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 8 AND 11, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB15-10-1099	SB15-20-1099	SB15-30-1099	SB15-40-1099	SB15-50-1099
Arsenic	6.1		21	14	
Barium	38	6.9			
Cadmium					
Chromium	15	3.4	27	49	2.5
Lead	9.2	2.6	6.7	9.7	3.4
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 21 AND 22, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB16-10-1099	SB16-20-1099	SB16-30-1099	SB16-40-1099	SB16-50-1099
Arsenic			30		
Barium					
Cadmium					
Chromium	8.6	8.9	67	3	2.2
Lead	3.1		12	3.1	
Mercury					
Selenium					
Silver					

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 26, 1999

ANALYTICAL RESULTS FOR RCRA METALS						
SAMPLE DESIGNATION						
COMPOUND	SB17-10-1099	SB17-10MS-1099	SB17-20-1099	SB17-30-1099	SB17-40-1099	SB17-50-1099
Arsenic				17		
Barium						
Cadmium						0.82
Chromium	3.4		4.4	28	1.4	2
Lead				6.3		
Mercury						
Selenium						
Silver						

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 6, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB18-10-1099	SB18-20-1099	SB18-30-1099	SB18-40-1099	SB18-50-1099
Arsenic			28		
Barium	11				
Cadmium					4.7
Chromium	8.3	3.4	31	5.5	6.2
Lead			8.7	3.8	4
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 11 AND 12, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB19-10-1099	SB19-20-1099	SB19-30-1099	SB19-40-1099	SB19-50-1099
Arsenic			57	9.7	
Barium					13
Cadmium					
Chromium	6.5	3	58	8	4.7
Lead			18		5.3
Mercury					
Selenium					
Silver				0.77	

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 12 AND 13, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB20-10-1099	SB20-20-1099	SB20-30-1099	SB20-40-1099	SB20-50-1099
Arsenic					
Barium			17		
Cadmium					
Chromium	6.6	6.4	27	2.9	7
Lead			5.9		5.4
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 14 AND 15, 1999

ANALYTICAL RESULTS FOR RCRA METALS						
	SAMPLE DESIGNATION					
COMPOUND	SB21-10-1099	SB21-20-1099	SB21-30-1099	SB21-40-1099	SB21-40D-1099 Duplicate	SB21-50-1099
Arsenic			55			
Barium						
Cadmium			0.78			1
Chromium	5	3.5	130	5.4	2.9	5.3
Lead			12			
Mercury						
Selenium						
Silver						

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 15 AND 18, 1999

ANALYTICAL RESULTS FOR RCRA METALS							
	SAMPLE DESIGNATION						
COMPOUND	SB22-10-1099	SB22-20-1099	SB22-30-1099	SB22-30MS/MSD	SB22-40-1099	SB22-50-1099	FB101599
Arsenic			22			10	
Barium							
Cadmium							
Chromium	21	2.8	40		3.2	10	
Lead			8.1			3.8	
Mercury							
Selenium							
Silver							

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 19, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB23-10-1099	SB23-20-1099	SB23-30-1099	SB23-40-1099	SB23-50-1099
Arsenic			7.3		
Barium					
Cadmium					
Chromium	3.5	4.4	31	3.1	2.5
Lead			5.2	3.1	
Mercury					
Selenium					
Silver				2.1	

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 29, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB24-14-0999	SB24-20-0999	SB24-30-0999	SB24-40-0999	SB24-50-0999
Arsenic	27	17	14		
Barium	30	11	6.2		15
Cadmium	120	2.5	5		
Chromium	91	27	38	3.7	2.6
Lead	60	10	7.9	3.3	6.6
Mercury	0.95				0.17
Selenium					
Silver	3.8				

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 1 AND 4, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB25-10-1099	SB25-20-1099	SB25-30-1099	SB25-40-1099	SB25-50-1099
Arsenic	9.9		15		
Barium	10				99
Cadmium	0.53				
Chromium	8.9	5.6	38	4.3	21
Lead	3.4		6.5	3.4	12
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
SEPTEMBER 30, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB26-10-0999	SB26-20-0999	SB26-30-0999	SB26-40-0999	SB26-50-0999
Arsenic			19	6.2	
Barium					28
Cadmium					
Chromium	5.4	8.9	22	12	6
Lead			5.3	3.4	8.6
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.

APPENDIX F
BETHPAGE - NWIRP
SOIL SAMPLING ANALYTICAL RESULTS
ADDITIONAL SOIL INVESTIGATION
BETHPAGE, NEW YORK
OCTOBER 5, 1999

ANALYTICAL RESULTS FOR RCRA METALS					
	SAMPLE DESIGNATION				
COMPOUND	SB27-10-1099	SB27-20-1099	SB27-30-1099	SB27-40-1099	SB27-50-1099
Arsenic			21		
Barium					10
Cadmium		1.2			
Chromium	4.8	9.8	53	2	3.1
Lead	3.2	4.7	10	4.5	5.8
Mercury					
Selenium					
Silver					

NOTES:
1. All results expressed in milligrams per kilogram (mg/kg).
2. U - Compound was analyzed for but not detected. The preceeding number is the practical quantitation limit for the compound.
3. J - Compound was detected at levels below the practical quantitation limit. The level reported is approximate.