

**INVESTIGATION OF "PHASE I" PARCELS H, I AND C REPORT
YONKERS DOWNTOWN WATERFRONT
YONKERS, NEW YORK
BROWNFIELDS PROGRAM**

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1.0 INTRODUCTION

This investigation of the Yonkers Downtown Waterfront project site in Yonkers, New York encompasses Parcels H, I and the southern portion of C of the proposed "Phase I" redevelopment and the adjacent portions of Parcel J, as shown on Figure 2, Site Plan. The work was intended to comply with the requirements of New York State Department of Environmental Conservation's *Technical and Administrative Guidance Memorandum: Environmental Restoration Projects (Brownfields) Guidance Documents* and the *Municipal Assistance Brownfield Program Procedures Handbook*. The work conducted was based on AKRF's previous assessment of the parcels, in accordance with AKRF's approved Work Plan.

The objectives of this study were to provide sufficient information to determine if the properties contain contaminated materials and allow for a conceptual remediation, if contaminated materials are found within any of the parcels. This portion of the study focused on "Phase I" Parcels H, I, southern portion of Parcel C, and portions of Parcel J adjacent to those parcels (Parcel J encompasses the proposed promenade, that will abut the western side of the parcels along the Hudson River).

1.1 Background

The study site has a history of industrial use going back more than 100 years. This industrial history indicated the potential for soil and groundwater contamination, as discussed in AKRF's Phase I Environmental Site Assessment Report, dated April 1997.

The entire study site (Phase I and Phase II parcels) boundaries are defined by: the Jack Frost Sugar facility to the south; the Hudson River to the west; the Habirshaw Athletic Club to the north; and the New York Central Railroad (NYCRR or Conrail) train tracks and Alexander Street to the east. Parcel H is abutted by: the Scrimshaw House condominium building to the north; New York Central Railroad (NYCRR or Conrail) train tracks to the east; Parcel I to the south; and the Hudson River to the west, as shown on Figure 2. Parcel I is abutted by: Parcel H to the north; New York Central Railroad (NYCRR or Conrail) train tracks to the east; the Jack Frost Sugar facility to the south; and the Hudson River to the west. Parcel C is abutted by the "Phase II" portion of Parcel C (currently used as a paved parking lot) to the north; the New York Central Railroad (NYCRR or Conrail) train tracks and Alexander Street to the east; the Saw Mill River outlet to the south and the Hudson River to the west.

Parcels H and I have been constructed of fill over time and have not contained buildings or other usages and comprise approximately 248,000 square feet. The two undeveloped parcels are currently covered with tall grass, concrete, solid asphalt piles and demolition debris. Parcel I is located on the southern portion of the undeveloped land and Parcel H is located to the north. A large asphalt pile, shown in Figure 3H&I, divides the two parcels.

Parcel C was utilized as lumber and coal yard from before 1886 until some time before 1917, when it was occupied by Otis Elevator (used primarily for coal storage) and a transportation company, used primarily for storage of freight and wagons. A transportation company occupied the site in 1951 and included an auto repair shop. Otis Elevator occupied a portion the site in 1971 and used the portion for coal storage. Plaza Sand & Stone also occupied a portion of the site and erected an asphalt mixing plant. Presently, the parcel is used as a parking lot. The northern end of Parcel C is owned and occupied by the Port Authority of New York. Results from the site investigation performed on the Port Authority-owned section of Parcel C will be submitted in a separate report. The southern portion of the parcel comprises approximately 103,000 square feet.

Parcel J is the proposed promenade of the redevelopment plan, and will be located west-adjacent to all the waterfront parcels (Parcels A through I) along the Hudson River. In this report, Parcels J was not reported as a separate parcel, but was included with the adjacent Parcels H, I and C.

2.0 Field Activities

2.1 Grid Survey

Testing grids were surveyed at each of the Phase I parcels by Munoz Engineering of New York, New York on May 19 and 23, 1998. These grids were used as a basis for the subsequent electromagnetic (EM) surveys, ground penetrating radar surveys, soil gas surveys, and the location of subsequent test pits, soil borings and monitor wells. The testing grids are shown on Figures 5C and 5H&I.

2.2 Electromagnetic Survey

Electromagnetic (EM) surveys of the parcels were conducted to determine the existence of underground storage tanks and other potential subsurface features which, if existing, may be a source of contamination. The EM survey is a non-invasive remote sensing technique which measures subsurface conductivity through the use of low frequency electromagnetic induction. EM is able to identify anomalies in subsurface conductivity caused by the presence of buried metal objects, changes in soil characteristics, and under some conditions, the presence of pollutant plumes. The EM does not produce reliable results in the presence of buried construction and demolition debris (i.e. reinforced concrete), chain link fences and parked cars. EM survey results were used to locate subsequent soil borings, monitor wells and test pits.

A GEONICS EM 31 Conductivity Meter was used for this survey. This instrument measures conductivities from the ground surface to approximately 20 feet below land surface in the vertical dipole mode. The in-phase component measures relative conductance. This component is

significantly altered by highly conductive objects and is, therefore, typically more sensitive to buried metals, such as underground storage tanks and drums.

Conductivity readings were recorded continuously at 1 second intervals using an Omnidata Digital Polycorder. The data collected was processed using the Geonics EM 31 software. The plots of each transect show the anomalies in subsurface conductance detected by the instrument. The possible causes of the anomalies inferred based on knowledge of previous usage and observed site conditions.

Parcel H

Parcel H is currently an undeveloped area covered with tall grass and construction debris, located south-adjacent to the Scrimshaw House. AKRF personnel performed an EM survey on Parcel H on April 22, 1998. The weather during the survey was sunny and approximately 75 °F. Concrete debris and asphalt piles, located on the western portion of the parcel, limited the EM survey to the area east of the concrete and gravel, as shown on Figure 5H&I. An undeveloped road was located north and west of the survey grid, beyond the gravel piles and concrete debris. A large asphalt pile was located on the southern side of the grid and is considered the boundary between Parcel H and Parcel I. The survey area was divided into 29 lines with lengths of 175, 225, 250 and 275 feet oriented in a north-south direction. Results of the EM survey are depicted on three maps included in Appendix B. The maps show the quadrature phase, the in-phase, and anomalies, which were generated from data collected from this survey.

In the map of detected anomalies, the linear anomalies (shown in green) correspond to the locations of underground utilities such as water pipes, sewer pipes and sewer line manholes. Dots (shown in red) indicate possible isolated small metallic objects such as small pipes or steel bars. These red ovals and dots could also represent buried concrete demolition debris with steel reinforcing bars. None of the anomalies had a finger print of a possible buried tank. Several isolated buried metallic objects and possible pipes were detected on the parcel. The most notable area is shown between the lines 25S and 75S, approximately 50 to 80 feet west of the 0N point. These anomalies can also be seen in the in-phase response component map. Based on the EM survey results, test pits were scheduled for this area.

Parcel I

On May 18, 1998, AKRF personnel performed an EM survey on Parcel I, located south-adjacent to Parcel H along the Hudson River. The parcel is currently an undeveloped area. The Jack Frost Sugar Refinery is located south-adjacent to Parcel I.

The survey area was divided into 20 lines with lengths of 50, 75 and 100 feet. Survey results are included on three maps included in Appendix B, showing the quad-phase, the in-phase, and anomalies, which were generated from data collected in this survey.

In the map of detected anomalies, squares (shown in red) represent large blocks of concrete with steel reinforcing bars. Three of these squares are shown between the 20W and 50W lines, located approximately 50 to 60 feet north of the 0N line. All three of the detected anomalies are seen in the in-phase component map. The irregular shape red area located on the northwestern side of the parcel also represents large blocks of concrete with steel reinforcing bars. None of the anomalies had a finger print of a buried tank. These four areas were chosen as test pit locations based on the EM survey results.

Parcel C

On May 23, 1998, AKRF personnel performed an EM survey on the southern portion of Parcel C, located north-adjacent to the Saw Mill River Outlet, along the Hudson River. The parcel is currently an asphalt paved commuter parking lot.

The survey area on the southern side of Parcel C was divided into 58 lines with lengths of 225, 250, 275 and 300 feet. Survey results are included on three maps included in Appendix B, showing the quad-phase, the in-phase, and anomalies, which were generated from data collected in this survey.

In the map of detected anomalies, one linear anomaly (shown in green) corresponds to the location of an underground utility, such as a water pipe or sewer pipe. Dots and lines (shown in red) indicate possible isolated small metallic objects such as small pipes, steel bars or buried metallic objects. The large yellow area, located between lines 75E and 100E, approximately 125 feet from 0N line, indicates possible significant anomalies that could be buried tanks. This yellow area could also represent buried building foundations with steel reinforcing bars. This anomaly can be seen in both the in-phase response and quad-phase component maps. None of the other anomalies had a finger print of a possible buried tank.

2.3 Soil Gas Survey

The soil gas sampling program was used as a screening procedure to better delineate the areas where soil borings, monitor wells and test pits would be located. Sampling points were chosen to obtain adequate coverage of the parcels, and were also based on information obtained from the EM survey. The grid established by the surveyor was utilized in plotting the chosen soil gas sampling points. Access to the subsurface soil was gained by drilling through the top one foot of surface materials using a Geoprobe unit. Upon completion of the boring through the surface material, the sampling probe, a 2.5-foot long, 5/8-inch diameter stainless steel shaft with a hardened point and slotted intakes, was driven into an additional two to three feet of soil to obtain the soil gas sample. The collected soil gas samples were immediately analyzed for benzene, ethylbenzene, xylene, toluene, trichloroethylene (TCE), tetrachloroethylene (PCE), and trans, 1,2-dichloroethylene (DCE) with a portable gas chromatograph.

Parcel H

On June 11, 1998, Zebra Environmental of Inwood, New York was contracted to provide Geoprobe services for the installation of sampling points on Parcel H. The weather was clear and approximately 70 °F. The Geoprobe van-mounted drill rig used hollow steel connecting rods driven into the subsurface. Once the sampling probe was driven to the desired depth, a van-mounted vacuum system was attached to the sampling probe head, and the system was purged to allow the collection and subsequent analysis of a representative sample of soil gas. Samples were retrieved in Tedlar bags and analyzed by Environmental Resource Management (ERM) of Exton, Pennsylvania using a Photovac 10S Plus GC/PID. All ERM reported soil gas results are in parts per million (ppm) and are included in Appendix C. Sampling points were installed in areas where anomalies were detected by the EM survey. Additional points were installed and sampled to provide full coverage of the parcel so that soil gas plumes, if present, could be delineated. A total of 29 attempts were made to retrieve soil gas from Parcel H; 14 soil gas samples were obtained and analyzed from Parcel H. Refusal was encountered at a depth of one to two feet on 15 attempts. One sample was retrieved from the undeveloped road located northwest of the survey grid.

Concentrations of total volatile organic compounds detected at Parcel H ranged from non-detect at 10 locations to 77.81 ppm on the western central portion of the parcel. Concentrations of trichloroethylene (TCE) were detected along the western central portion of Parcel H. Concentrations of toluene, xylene and benzene were detected in the southern central portion of the parcel. A summary of these results are included in Table 2.1. Based on these results, test pits and soil borings/monitor wells were installed in these areas. There were no apparent trends on the parcel. Sampling points, total volatile organic compound results, and contours of possible soil gas plumes are plotted on Figure 4H&I, reported in parts per million (ppm).

Table 2.1
Parcel H Soil Gas Summary
Yonkers Downtown Waterfront - Parcel H¹
(ppm)

<i>Sampling Location²</i>	<i>Benzene</i>	<i>TCE</i>	<i>Toluene</i>	<i>Xylene(s)</i>	<i>Total VOCs</i>
55W - 175S	0.12	0.48	0.27	ND	0.87
130W - 230S	ND	2.48	ND	ND	2.48
140W - 125S	ND	77.81	ND	ND	77.81
50W - 240S	ND	ND	ND	0.14	0.14

Notes: ¹ Samples collected by AKRF, Inc. personnel on June 11, 1998 and analyzed for benzene, ethylbenzene, xylene, toluene, trichloroethylene (TCE), tetrachloroethylene (PCE), and trans, 1,2-dichloroethylene (DCE) with a portable gas chromatograph.

² Locations based on the surveyed grid included in Appendix D.

ND = None detected
ppm = parts per million

Parcel I

On September 23, 1998, Zebra Environmental provided Geoprobe services for the installation of soil gas sampling points on Parcel I. Samples were retrieved in Tedlar bags and were analyzed by Environmental Resource Management (ERM) using a Photovac 10S Plus GC/PID. The weather was clear and approximately 65°F.

A total of 16 attempts were made to retrieve soil gas from Parcel I. Refusal was encountered at depths of one to two feet on five attempts. Eleven samples were retrieved and analyzed for volatile organic compounds. Concentrations of total volatile organic compounds detected ranged from 0.29 ppm in the northeastern portion of the parcel to 11.28 ppm in the northern central section of the parcel. Toluene and acetone were detected in each of the samples analyzed. Acetone concentrations ranged from 0.22 ppm to 10.83 ppm. Toluene concentrations ranged from 0.02 ppm to 0.38 ppm. Concentrations of ethylbenzene, xylenes and trichloroethylene (TCE) were detected in the northeastern corner of the parcel.

Based on these results, test pits and soil borings/monitor wells were installed in these areas. There were no apparent trends on the parcel. Sampling points and total volatile organic compound results are plotted on Figure 4H&I, reported in parts per million (ppm).

Parcel C

On September 22, 1998, Zebra Environmental provided Geoprobe services for the installation of soil gas sampling points on Parcel C. Samples were retrieved in Tedlar bags and were analyzed by Environmental Resource Management (ERM) using a Photovac 10S Plus GC/PID. The weather was clear and approximately 65°F. A total of 16 attempts were made to retrieve soil gas from Parcel C. A total of 15 soil gas samples were obtained and analyzed from Parcel C. Refusal was encountered at a depth of approximately two feet at one location. One sample was retrieved from the area located west of the survey grid.

Concentrations of total volatile organic compounds detected at Parcel C ranged from 0.59 ppm on the central portion of the parcel to 7.29 ppm on the southeastern section of the parcel. Concentrations of acetone and toluene were detected in each sample analyzed. Acetone concentrations ranged from 0.54 ppm to 5.77 ppm and toluene concentrations ranged from 0.03 ppm to 0.56 ppm. Based on these results, soil borings/monitor wells were installed in these areas.

Sampling points, total volatile organic compound results, and contours of possible soil gas plumes are plotted on Figure 4C, reported in parts per million (ppm).

2.4 Ground Penetrating Radar

A ground penetrating radar (GPR) survey was conducted by Hager-Richter Geoscience, Inc. of Salem, New Hampshire, following the EM and soil gas surveys to better delineate the anomalies detected during those surveys. A Geophysical Survey Systems Model SIR-2 state-of-the-art digital ground penetrating radar system was utilized with a 500 MHZ or 300 MHZ antenna. GPR can detect the shape of buried objects and can delineate drums and tanks. Hager-Richter's report is included as Appendix D.

Parcel H

On May 20, 1998, a GPR survey was performed on Parcel H. The weather during the survey was sunny, clear and approximately 78 °F. The grid established by the surveyor was utilized for the GPR survey.

Based on anomalies detected in the EM survey results, three large areas, covering most of the parcel, were surveyed. Surveyed areas included: the central section of Parcel H, the northeastern portion, and the southwestern section of the parcel. No underground storage tanks were located on the parcel, however, four small unidentified buried objects were detected in the central portion of the parcel, as shown in the results from the GPR survey, located in Appendix D.

Parcel I

On May 21, 1998, the GPR survey was performed on Parcel I. The weather during the survey was clear and approximately 78 °F. The GPR survey was performed by Hager-Richter Geoscience, Inc. utilizing the surveyor's grid. The survey area was divided into 20 lines with lengths of 50, 75 and 100 feet. The survey results did not indicate the presence of any buried objects, underground piping or underground storage tanks. The results from the GPR survey are located in Appendix D.

Parcel C

On May 28, and 29, 1998, the GPR survey was performed on Parcel C. The weather during the survey was overcast and approximately 65 °F. The GPR survey was performed by Hager-Richter Geoscience, Inc. utilizing the surveyor's grid on the southern portion of Parcel C, located north-adjacent to the Saw Mill River Outlet along the Hudson River.

The survey area on the southern side of Parcel C was divided into two separate grids. Based on anomalies detected during the EM survey, one survey area was established in the northeastern corner, and the other was established in the central portion of the parcel.

The survey area in the northeastern portion of the parcel was divided into 15 lines with lengths of 60 feet. An unidentified buried object and possible underground utility were detected in the survey area. No underground storage tanks were detected.

On the central portion of the parcel, the survey area was divided into 17 lines with lengths of 100 feet. According to EM survey results, this area was suspected of containing either an underground storage tank or concrete foundation reinforced with steel bars. GPR results did not indicate the presence of an underground storage tank. One large flat reflector, possibly a buried concrete foundation, was located along the 100E line. This is the same location the EM survey detected an anomaly that was believed to be a possible tank. Several other unidentified buried objects and possible underground utilities were detected, however, none of the anomalies had a finger print of a buried tank. Survey results are located in Hager-Richter's report included in Appendix D.

2.5 Test Pits

Test pits were excavated in areas where anomalies were detected with the EM and/or GPR surveys and where high concentrations of volatile organic compounds were detected in the soil gas survey. Soil samples obtained from the test pits were classified individually using the modified Burmister Classification System. When weather permitted, soil samples were field-screened using the head-space technique with an Organic Vapor Meter (OVM) Model 580B photoionization detector (PID). Test pit logs detailing soil and excavation activities are provided in Appendix E and test pit locations are shown on Figures 3H&I and 5H&I. Based on PID readings and visual inspection, soil samples were selected and submitted for laboratory analysis. As requested by the NYSDEC, when monitor wells could not be installed due to surficial fill materials, groundwater samples were collected from several test pits and submitted for analysis.

A New York State Department of Health certified CLP laboratory analyzed the soil and groundwater samples for Target Compound List (TCL) volatile organic compounds and semivolatile organic compounds, total Target Analyte List metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc) and polychlorinated biphenyls (PCBs). Samples were transported under chain-of-custody protocol.

Parcel H

On June 15 and 16, 1998, six test pits were excavated on Parcel H. The weather during the excavations was cloudy and approximately 68 °F. Test pit locations are shown on Figure 3H&I and test pit logs are included in Appendix E. Rusciano, Inc. provided backhoe services for the excavations. Test pits TP-1H, TP-2H, TP-3H, and TP-7H were excavated on the survey grid established for the parcel. Test Pits TP-8H and TP-9H were excavated west of the grid, and test pit TP-10H was excavated north of the grid.

Test pits TP-1H, TP-2H and TP-3H were excavated where several anomalies were detected by the EM survey. Concrete block, metal piping and I-beams account for the detected anomalies in these areas. Test pit TP-1H was excavated on the northern portion of the grid, south of the undeveloped road. The excavation contained construction debris, metal piping, reinforced concrete and steel beams, which account for the anomalies detected in the EM Survey. Ten 20-foot long steel I-beams were removed from the excavation. Soil in the excavation consisted of brown to black sand and gravel. A soil sample collected from approximately four feet below grade was submitted for laboratory analysis. The total depth of the excavation was approximately 10 feet below grade.

Test pit TP-2H was excavated along the western central section of the parcel. Miscellaneous fill such as wood, red brick, metal pipes and concrete were encountered at shallow depths. Soil in the excavation consisted of brown to dark brown sand and silt. No sample was submitted for analysis from this test pit.

Test pit TP-3H was excavated in the central portion of the surveyor's grid. Metal piping and concrete were encountered at approximately two feet below grade. Large concrete block was observed from three to seven feet below grade. Groundwater was encountered at approximately eight feet below grade. A groundwater sample was collected from the bottom of the test pit and submitted for analysis to provide upgradient groundwater conditions on the parcel.

Test pit TP-7H was excavated in the southern end of the surveyed grid. Concrete block was encountered at approximately three feet below grade. Soil in the excavation consisted of gray to brown sand with some black ash. No sample was collected from this test pit for laboratory analysis.

Test pit TP-8H was excavated approximately 60 feet west of the surveyed grid, in the southern corner of the parcel. Cobbles and schist were observed to three feet below grade, overlaying brown sand. Soil in test pit TP-9H consisted of gray-brown sand with some mica schist. A soil sample was collected at approximately four feet below grade and submitted for analysis. Groundwater was intercepted at six feet below grade; a groundwater sample was collected and submitted for laboratory analysis. TP-9H was excavated approximately 120 feet west of TP-2H. Groundwater samples from test pits TP-8H and TP-9H were collected to provide downgradient groundwater conditions for the parcel.

Soil in test pit TP-10H, located 50 feet north of the testing grid, consisted of black sand and silt. Red brick, coal ash and plastic wire casing were encountered approximately four feet below grade. A soil sample was collected from approximately four feet below grade and submitted for laboratory analysis. Soil and groundwater samples were analyzed for Target Compound List (TCL) volatile organic compounds and semivolatile organic compounds, Target Analyte List metals and polychlorinated biphenyls (PCBs).

Sample analysis from the soil collected from test pits on Parcel H showed elevated levels of PCBs and metals. At the request of Mr. Thomas Gibbons of the New York State Department of

Environmental Conservation (NYSDEC), additional test pits were then excavated in this area, with additional soil and groundwater sample collection. Soil and groundwater samples were analyzed for Target Analyte List (TAL) metals and PCBs. Groundwater samples collected from these additional test pits were filtered in the field and analyzed for dissolved TAL metals.

On October 28, 1998, a total of eight additional test pits were excavated on Parcel H. Concentrations of PCBs had been detected in soil collected from TP-10H. To better delineate the PCB contamination, test pit TP-10AH was then excavated adjacent to test pit TP-10H. Soil in test pit TP-10AH consisted of brown to black sand. Miscellaneous fill materials including red brick, plastic wire casing and concrete block were encountered throughout the test pit. A soil sample was collected from approximately four feet below grade and submitted for laboratory analysis. Groundwater was intercepted at nine feet below grade; a groundwater sample was collected and submitted for laboratory analysis.

Test pit TP-11H was excavated adjacent to test pit TP-1H, where concentrations of PCBs had been detected. Soil consisted of brown sand and silt. Miscellaneous fill materials including metal piping, plastic wire casing, wood and concrete block were encountered at approximately three feet below grade. A 55-gallon drum containing oil was encountered at approximately four feet below grade. A sample of this fluid was collected and analyzed in the laboratory. The fingerprint analysis indicated that the drum contained No. 2 fuel oil. A soil sample was collected at approximately three feet below grade and submitted for analysis. Groundwater was intercepted at 11 feet below grade; a groundwater sample was collected and submitted for analysis. Concentrations of PCBs were detected in groundwater collected from test pit TP-3H excavated previously. To better delineate the PCBs in this area, test pit TP-12H was excavated on the southern side of TP-3H. Brown sand and miscellaneous fill materials were located throughout the test pit. A soil sample was collected at approximately four feet below grade and submitted for analysis. Groundwater was intercepted at twelve feet below grade and a sample was collected and submitted for analysis.

Test pits TP-13H, TP-14H, TP-15H, TP-16H were excavated on the northern side of the undeveloped road. Soil in test pit TP-13H consisted of brown sand and silt. Wire, red brick and rope were located from five to eight feet below grade. A soil sample was collected from approximately five feet below grade and submitted for analysis. Groundwater was intercepted at ten feet below grade; a groundwater sample was collected and submitted for analysis. Soil in test pit TP-14H consisted of brown sand, silt and gravel. Miscellaneous fill material including wire and red brick were encountered three to four feet below grade. A soil sample was collected at approximately five feet below grade and submitted for analysis. The test pit was excavated to approximately eight feet below grade; groundwater was not encountered.

Soil in test pit TP-15H consisted of brown sand and silt. Concrete block was located throughout the test pit. Groundwater was encountered at approximately nine feet below grade. Soil in test pit TP-16H consisted of brown sand and gravel with miscellaneous fill materials including red brick, metal beams and wood. Groundwater was encountered at approximately eight feet below grade. Soil

samples were collected from approximately five feet below grade from test pits TP-15H and TP-16H and submitted for laboratory analysis. Test pit TP-17H was excavated on the southern side of the parcel to provide additional coverage in this area. Soil consisted of brown sand and silt. Concrete block was encountered throughout the test pit to a depth of 8.5 feet below grade. No groundwater was intercepted during the excavation of test pit TP-17H. A soil sample was collected from approximately three feet below grade and sent for laboratory analysis.

Elevated concentrations of lead were detected in test pits TP-11H and TP-13H (see Section 3.2.1). At the request of Mr. Thomas Gibbons of the NYSDEC, on January 27, 1999, five additional test pits were excavated on Parcel H. Soil samples were analyzed for RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver).

Test pits TP-10BH was excavated in the same area as test pits TP-10H and TP-10AH. Test pit TP-10BH was excavated to a depth of nine feet, where groundwater was encountered. A soil sample was collected from approximately four feet below grade and submitted for analysis. Test pit TP-11AH was excavated in the same area as test pit TP-11H. Soil consisted of brown to black sand and gravel. Two soil samples were collected and sent for laboratory analysis: one sample from approximately three feet below grade and one sample from approximately seven feet below grade. Plastic mats were encountered from approximately seven feet below grade to the bottom of the test pit (ten feet below grade), where groundwater was intercepted.

Test pit TP-13AH was excavated in the same area as test pit TP-13H. Concrete block was encountered throughout the excavation. Soil in the excavation consisted of brown sand and silt. Soil samples were collected from approximately four feet and eight feet below grade were sent for laboratory analysis. Test pit TP-18H was excavated on the northwestern portion of the parcel. Miscellaneous fill such as concrete blocks were encountered at shallow depths. Soil in the excavation consisted of brown sand and silt. Groundwater was intercepted at approximately nine feet below grade. A soil sample was collected from approximately five feet below grade and sent for laboratory analysis. Test pit TP-19H was located on the southern side of previously excavated test pits TP-11H and TP-11AH. Soil consisted of brown sand. Miscellaneous fill materials included metal sheets and concrete block. A soil sample was collected from approximately three feet below grade and sent for laboratory analysis. Groundwater was intercepted at approximately eight feet below grade at the bottom of the excavation.

Parcel I

On June 15 and 16, 1998, three test pits were excavated on Parcel I. The weather during the excavations was cloudy and approximately 68 °F. Rusciano, Inc. provided backhoe services for the excavations. Test pits TP-4H, TP-5H and TP-6H (misabeled as "H") were excavated in areas where EM anomalies were detected on Parcel I. No anomalies were detected by the GPR survey of Parcel I. Low concentrations of volatile organic compounds were detected in the soil gas survey, however, there were no apparent trends.

Test pit TP-4H was excavated on the eastern side of the parcel. Soil consisting of dark brown sand and gravel was encountered in the first three feet of the excavation. Large concrete foundation block was unearthed at approximately three feet to five feet below grade. A soil sample was collected from approximately five feet below grade and submitted for analysis. Soil consisted of ash and dark brown sand. Groundwater was intercepted at approximately eight feet below grade; a groundwater sample was collected and submitted for laboratory analysis to provide upgradient groundwater conditions for the parcel.

Soil from test pits TP-5H and TP-6H consisted of dark brown sand, silt and coal ash. Steel bars and concrete were encountered at shallow depths in both test pits. No soil samples were sent for analysis from these two test pits. Groundwater was encountered in test pit TP-5H at a depth of 8.5 feet below grade. No groundwater was intercepted in test pit TP-6H.

Envirotech Research, Inc., a New York State Department of Health certified CLP laboratory, analyzed the soil samples for TCL volatile organic compounds and semivolatile organic compounds, TAL metals and PCBs. Groundwater samples were analyzed for TCL volatile organic compounds and semivolatile organic compounds, TAL metals and PCBs. Samples were transported under proper chain-of-custody protocol.

Parcel C

Parcel C is currently used as a commuter parking lot, therefore, no test pits were excavated.

2.6 Soil Borings and Monitor Wells

Proposed soil boring and monitor well locations were based on the results from the initial EM, soil gas and GPR surveys, and known history of the parcels. The borings and monitor wells on Parcels H and I were installed by Uni-Tech Drilling of Malaga, New Jersey using a hollow stem auger rig. Soil samples were not collected due to interference from reinforced concrete foundations, metal bars and other miscellaneous fill materials. The locations of the monitor wells are shown on Figure 3H&I.

The borings and monitor wells on Parcel C were installed by Enviro-Tech Drilling of West Bridgewater, Massachusetts using a hollow stem auger rig and the split spoon sampling method. The locations of the soil borings are shown on Figure 3C. Soil samples were collected from the ground surface and continuously, or in five foot intervals, to a maximum depth of approximately 14 feet below grade. Monitor wells were designated with the prefix "MW" on the figures and the boring logs included in Appendix E.

Two soil borings from each parcel were retrofitted with monitor wells using two-inch, Schedule 40, threaded, flush-joint PVC well materials, according to standard RCRA monitor well installation procedures. Locations of the monitor wells are depicted in Figure 3H&I and 3C. Monitor well

screen sections were located across the saturated/unsaturated interface and were backfilled with clean silica sand. A bentonite seal was then placed above the sand. Monitor wells on Parcels H and I were completed using locking, stick-up, steel cylinders, two feet above grade. Monitor wells on Parcel C were completed using locking, gate boxes, flush-with-grade. Following the installation of the monitor wells, a submersible pump was utilized to develop the wells. Each well was pumped approximately 20 minutes at a rate of two gallons per minute.

Soil from each boring was classified using the modified Burmister Classification System and field-screened with an Organic Vapor Meter (OVM) Model 580 B photoionization detector (PID). Although no soil was recovered with the split spoon samplers during the installation of monitor wells on Parcels H and I, PID readings were taken of the soil from the auger flights and of the ambient air around the borings during the installation. No volatile organic compounds were detected with the PID at these locations that would confirm the soil gas hits in this area. The PID readings for Parcel C are included on the boring logs in Appendix E.

In addition to the laboratory analysis of the samples collected in the field, additional analyses were included as a quality control measure, as required under New York State protocol. For the soil sampling task, additional samples analyzed included: one aqueous equipment blank (field blank) per drilling day of all stated analyses and one aqueous trip blank per cooler for volatile organic compounds. Additional water analysis collected during the groundwater sampling activities included one equipment blank per sampling day of all stated analyses and one trip blank per cooler for volatile organic compounds. One set of soil field duplicates was collected and included all stated analysis. The field duplicates were labeled "blind" to the laboratory.

Parcel H

On July 9, 1998, two soil borings were advanced on Parcel H. Both of the borings were retrofitted with monitor wells. The weather during the installation was sunny and approximately 75°F. Monitor well MW-1H was installed in the west central portion of the parcel. The 10-foot section of well screen was installed from 9 feet to 19 feet below grade. The monitor well was installed at this location based on elevated levels of volatile organic vapors detected in the soil gas survey at this location and for the purpose of delineating downgradient groundwater quality for Parcel H. Some of the cuttings from the auger appeared to be pulverized concrete. Several cutting teeth of the auger were damaged during drilling activities. Upon completion, the boring was observed to contain a number of voids and gaps. A large amount of filter sand was necessary to fill these gaps and complete the monitor well.

Monitor well MW-2H was installed in the northeastern corner of the parcel. The 10-foot section of well screen was set from approximately 9 to 19 feet below grade. Drill cuttings observed included red brick and concrete. Soil from the drill cuttings was observed to be gray-black silt. This monitor well was installed for the purpose of delineating upgradient groundwater quality for Parcel H. Monitor well locations are shown on Figure 3H&I. No soil samples were collected during the

installation of these monitor wells due to large amounts of fill materials including concrete and brick.

Parcel I

On July 9 and 10, 1998, two soil borings were advanced on Parcel I. Both borings were retrofitted with monitor wells. The weather during drilling was 75 °F and sunny. Monitor well MW-1I was installed in the southwestern corner of the parcel to delineate downgradient groundwater conditions. The 10-foot section of well screen was set from approximately 6 to 16 feet below grade. Soil from the drill cuttings was observed to be gray-black silt.

Monitor well MW-2I was installed to 19 feet below grade in the northeastern corner of the parcel to quantify upgradient groundwater conditions. Drill cuttings consisted of gray-black silt and gravel with no odor. No soil samples were collected during the installation of these monitor wells due to large amounts of fill materials including concrete and brick.

Parcel C

On October 28 and 29, 1998, five soil borings were advanced on Parcel C, two of which were retrofitted with monitor wells. The weather during the installation was sunny and approximately 60°F. Boring B-1C was installed in the northeastern corner of the parcel. One soil sample was obtained from approximately five feet below grade and was submitted for laboratory analysis. Concrete was encountered from 3.5 to 4.5 feet below grade. Refusal was encountered at seven feet below grade on a possible boulder.

Monitor well MW-2C was installed approximately 20 feet west of boring B-1C. Asphalt and concrete were encountered to a depth of five feet below grade. Wet brown sand and gravel were observed at approximately six feet below grade. The PVC well screen was set from 4 to 14 feet below grade. This monitor well was installed for the purpose of delineating upgradient groundwater conditions at the parcel.

Boring B-3C was advanced in the north-central portion of the parcel. Asphalt and concrete were encountered to a depth of four feet below grade. Refusal was met at approximately 4.5 feet below grade on concrete. Soil samples could not be collected due to the concrete.

Monitor well MW-4C was installed on the western side of the parcel for the purpose of delineating downgradient groundwater conditions. Soil sample S-3 was obtained from approximately four feet below grade and was submitted for laboratory analysis. The soil consisted of dark brown sand and gravel. Groundwater was located at approximately five feet below grade. The PVC well screen was set from 3 to 11 feet below grade. The monitor well casing was cemented within a locking steel cap, flush with grade.

Borings B-5C and B-6C were advanced in the northwestern section of the parcel. Both borings hit refusal at eight feet below grade on possible boulders. One soil sample was obtained from each boring and submitted for laboratory analysis. Soil from both borings consisted of black sand and gravel and had a petroleum odor. No volatile organic compounds were detected with the PID on the soil samples collected.

Boring B-7C was advanced in the center of the property in an area where significant EM and GPR anomalies were located. Soil consisted of brown to black sand and silt with some gravel. A petroleum odor was present in the soil at approximately six feet below grade. PID readings for the soil sample S-4 were 2.3 ppm. Boring B-8C was advanced on the southeastern portion of the parcel. Soil at five feet below grade consisted of brown silt. A sample was obtained and submitted for laboratory analysis from this depth. No volatile organic compounds were detected in the field in this sample.

2.7 Monitor Well Sampling

On July 24, 1998, groundwater samples were collected from the four newly installed monitor wells on Parcels H and I. On November 9, 1998, groundwater samples were collected from the two newly installed monitor wells on Parcel C. Prior to sampling, depth to water measurements were taken. These measurements were used to calculate the volume of water in each well. At least three times the well volume was purged from each well prior to sampling. A new disposable bailer was used to purge each well. Groundwater purged from each well was noted to be light brown, with no odors or sheens. Samples were transferred directly from the bailer into the sample containers.

Specific conductance and pH were measured in the field following well purging. An Oakton TDS Testr and waterproof pH Testr were used for the field measurements. Prior to field testing, both instruments were field calibrated. Following each measurement, the instruments were decontaminated using a distilled water rinse. Results from the field measurements are included in Table 2.1.

Groundwater samples collected from each of the monitor wells were placed in a chilled cooler and transported to Envirotech Research Inc., New Jersey, a New York State certified CLP laboratory. Laboratory analysis included volatile organic compounds, semivolatile organic compounds, Target Analyte List metals and polychlorinated biphenyls (PCBs). In addition, turbidity was also quantified by the laboratory, included in the field results summarized in Table 2.1.

2.7.1 Groundwater Field Results

Specific conductance values measured in the field ranged from 800 micromhos per centimeter ($\mu\text{mhos/cm}$) in monitor well MW-1H to 1630 $\mu\text{mhos/cm}$ in monitor well MW-2H. Measured pH values ranged from 6.7 standard units (s.u.) in monitor well MW-1I to 7.4 in monitor well MW-1H. There is no New York State drinking water standard for pH in groundwater, however, Federal secondary drinking water regulations stipulate pH values between 6.5 and 8.5. Specific conductance represents a measure of the relative amounts of dissolved solids in the water, which usually includes metals and/or salts. There is no drinking water standard for specific conductance, however, these values are typical for industrial areas and areas with saline groundwater. Turbidity values ranged from 450 Nephelometric Turbidity Units (NTU) in monitor well MW-2I to 1,050 NTU in monitor well MW-1H. Groundwater field results are summarized in Table 2.2.

Table 2.2
Groundwater Field Measurements Summary¹
Parcels H, I and C
Yonkers, New York

<i>Monitor Well</i>	<i>Specific Conductance ($\mu\text{mhos/cm}$)</i>	<i>pH (standard units)</i>	<i>Turbidity (NTU)</i>
MW-1H	800	7.4	1,050
MW-2H	1,630	7.1	460
MW-1I	1,150	6.7	875
MW-2I	860	7.2	450
MW-2C	890	7.3	NA
MW-4C	850	7.1	NA

¹ Measurements taken on July 24, 1998, and November 9, 1998
 $\mu\text{mhos/cm}$ = micromhos per centimeter

² NA - Not Analyzed

2.8 Surface Soil Sampling

On July 30, 1998, surface soil samples were obtained from Parcels H and I. Soil sample SS - Parcel I was collected from the southwestern corner of Parcel I and soil sample SS - Parcel H was collected from the western central portion of Parcel H. The entire surface of Parcel C is covered with asphalt, therefore, no surface soil sample was obtained. Samples from Parcel H and I were analyzed at Envirotech Research, Inc. for semivolatile organic compounds, polychlorinated biphenyls (PCBs) and pesticides, in accordance with the approved Work Plan.

2.9 Background Soil Sampling

Three background surface soil samples were collected from adjacent areas outside of the study site parcels, which were also used in the Site Investigation Report for Parcels E and F of the Yonkers downtown waterfront development. The locations of these samples are shown on Figure 2. The three surface soil samples were analyzed for TAL metals and polyaromatic hydrocarbons (PAHs). The samples were collected on June 18, 1998 from the following locations: sample BG-1 from the Prospect Street grassed median, just north of Buena Vista Avenue; sample BG-2 from the Main Street grassed median, between parcel E and parcel F; and BG-3 from the grassed median located adjacent to Dock Street. Results from the background sample analysis is included in the soil analytical results. Background sample locations are shown on Figure 2.

2.10 TCLP Analysis

Based on initial metals analytical results of test pit soil samples, two soil samples (sample TP-13AH and TP-13BH from test pits located on Parcel H) were additionally analyzed for lead using the Toxicity Characteristic Leaching Procedure (TCLP). The additional analysis was performed to determine whether soil would be considered hazardous, according to NYSDEC regulations.

2.11 Monitor Well Elevation Survey

On July 27, 1998, the monitor well locations and elevations for parcels H and I were surveyed by Munoz Engineering. The survey for the Parcel C locations and elevations was completed on November 14, 1998. The locations are shown on Figures 3H&I and 3C. Three elevation measurements were taken at each monitor well location: the ground beside the well; the rim of the monitor well (when closed); and the top of PVC. When measuring the depth to the water table in the monitor wells, the measurement were made to the top of PVC, at a location marked on the PVC by AKRF. These field measurements and elevation measurements, shown in Table 2.3, were used

to establish the groundwater table elevation. These measurements cannot be used to infer flow direction, as this area of the Hudson River is tidal, and measurements were not taken simultaneously.

Table 2.3
Groundwater Table Elevations¹
Parcels H, I and C
Yonkers, New York

<i>Well I.D.</i>	<i>PVC Elevation</i>	<i>Depth to Water²</i>	<i>Water Table Elevation</i>
MW-1H	15.70	14.53	1.17
MW-2H	13.30	12.9	0.4
MW-1I	7.44	6.36	1.08
MW-2I	10.82	9.86	0.96
MW-2C	7.46	7.0	0.46
MW-4C	5.09	5.34	-0.31

¹ Elevations surveyed by Munoz Engineering P.C. on July 27, 1998 and November 14, 1998.

² Depth to water measurements taken by AKRF, Inc. on July 24, 1998 and November 9, 1998.

2.12 QA/QC for Groundwater and Soil Sampling

To assure the integrity of samples obtained at the site, measures were taken to prevent cross contamination of soil or groundwater samples. During all drilling activities, augers and split spoon samplers were hot water pressure (steam cleaned) between each location. Split spoon samplers and sampling equipment were decontaminated between each sample using alconox wash, distilled water rinse, acid rinse, followed by a final distilled water rinse and, weather permitting, allowed to air dry. Groundwater sampling of the monitor wells was performed using dedicated disposable bailers. Soil and groundwater samples were obtained directly from test pits. New latex or nitrile gloves were worn during all sampling procedures.

Under New York State protocol, additional laboratory sampling of actual samples is required as a quality control measure. In accordance with New York State protocol for soil sampling (soil borings and test pits), one aqueous equipment blank per day was analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), TAL metals and polychlorinated biphenyls (PCBs) and one aqueous trip blank per cooler was analyzed for volatile organic compounds. One set of soil duplicates were analyzed for volatile organic compounds, semivolatile organic

compounds, TAL metals and PCBs. Since no equipment other than new latex or nitrile gloves was used during test pit sampling, no aqueous equipment blank was analyzed for the test pit operation.

For groundwater sampling, one aqueous equipment blank per day was analyzed for volatile organic compounds, semivolatile organic compounds, TAL metals and PCBs. In addition, one aqueous trip blank per cooler was analyzed for volatile organic compounds.

3.0 SOIL AND GROUNDWATER ANALYTICAL RESULTS

3.1 Field Results

Soil samples were field-screened for volatile organic compounds using a Thermo Environmental Instruments, Inc. Model 580B Organic Vapor Meter (OVM) photoionization detector (PID) and the headspace field-screening method. Additionally, the OVM was used to monitor ambient air during field work.

Parcel H

On June 15 and 16, 1998, seven test pits were excavated on Parcel H (TP-1H, TP-2H, TP-3H and TP-7 through TP-10). PID readings ranged from 2.3 parts per million (ppm) in test pit TP-8H to 13.9 ppm in test pit TP-10H. Test pit TP-10H was located on the northeastern corner of the parcel. Sample analysis from the soil collected from test pits on Parcel H showed elevated levels of PCBs and metals. Eight additional test pits were excavated on Parcel H on October 28, 1998 (TP-10AH and TP-11H through TP-17H). No volatile organic compounds were detected by the PID during the test pits excavated in October. Elevated concentrations of lead were detected in test pits excavated on October 28, 1998. In response to the initial results and to better delineate lead concentrations in the area, on January 27, 1999, five additional test pits were excavated on Parcel H (TP-10BH, TP-11AH, TP-13AH, TP-18H and TP-19H). On July 10, 1998, two soil borings (MW-1H and MW-2H) were advanced on Parcel H, each retrofitted with a monitor well. No volatile organic compounds were detected by the PID on auger tailings or ambient air around the boring holes during the boring/monitor well installations. Test pit and monitor well locations are presented in Figure 3H&I.

Parcel I

On June 16, 1998, three test pits were excavated on Parcel I (TP-4H, TP-5H and TP-6H). No volatile organic compounds were detected by the PID during the excavation of these test pits. On July 10, 1998, two soil borings were advanced on Parcel I (MW-1I and MW-2I), with each of the borings retrofitted with a monitor well. No volatile organic compounds were detected by the PID on auger tailings or ambient air surrounding the borings. Test pit and monitor well locations are presented in Figure 3H&I.

Parcel C

On October 29 and 30, 1998, eight soil borings were advanced on Parcel C, with two of the borings retrofitted with monitor wells. Sample S-4 from monitor well MW-7C registered a PID reading of 2.3 ppm. No volatile organic compounds were detected by the PID on any other soil samples collected from Parcel C. Monitor well and boring locations are presented in Figure 3C.

3.2 Laboratory Results

This section presents the results and interpretation of laboratory chemical analyses performed on soil samples collected during the investigation of Parcels H, I and the southern portion of Parcel C of the Yonkers Downtown Waterfront Development. The discussion of laboratory results is organized by parcel.

The chemical analytical data received from the laboratory are provided in Appendix F of this report and includes analytical results and chain-of-custody documentation. Summary tables appended to this report include corrections from the Data Usability Summary Report (DUSR), which was sent under separate cover.

The soil data results are compared to the New York State Department of Environmental Conservation Soil Cleanup Objective from the Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046). The bases for these guidance values include direct human ingestion of soil and the impact to groundwater used as a drinking water source. Similarly, groundwater data are compared to Ambient Water Quality Standards and Guidance Values from the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), developed for drinking water, even though groundwater is brackish from the tidal action of the Hudson River and is not used as a drinking water source.

Background soil samples were collected from off-site areas and analyzed to characterize the area soils. As such, it is expected that some of the on-site samples would be above the average off-site values. These background samples were also used in the Site Investigation Report of Parcels E and F. The summary tables in this report include the results of all three background samples.

3.2.1 Parcel H Soil

Surface soil, subsurface soil, and groundwater samples were collected from Parcel H at the locations shown in Figure 3H&I. Analytical results are presented in Tables H-1 through H-10, and are discussed in the following sections.

A total of 18 subsurface soil samples were collected and analyzed from Parcel H. Eleven of these samples were analyzed for polychlorinated biphenyls (PCBs) and Target Analyte List

(TAL) metals. Three of the samples were also analyzed for volatile organic compounds and semivolatile organic compounds. The seven remaining samples were analyzed for RCRA metals (one of these samples was additionally analyzed for volatile organic compounds). One surface soil sample was collected from Parcel H and analyzed for semivolatile organic compounds, PCBs, pesticides, and TAL metals.

Volatile Organic Compounds

Detected volatile organic compounds are summarized in Table H-1. Complete laboratory reports are included in Appendix F. Acetone, 2-Butanone, 1,1,1-trichloroethane, trichloroethene, benzene, tetrachloroethene, toluene, and xylenes were detected in the subsurface soils. None of the concentrations of these compounds exceeded the NYSDEC Soil Cleanup Objectives. No other volatile organic compounds were detected.

Semivolatile Organic Compounds

Table H-2 includes a summary of detected semivolatile organic compounds. Benzo(a)anthracene and chrysene were detected above the NYSDEC Soil Cleanup Objectives in each of the four samples analyzed. These compounds, however, were also detected in background samples above the Cleanup Objectives. Bis(2-ethylhexyl)phthalate was detected at one location (TP-10H) at a concentration exceeding the Soil Cleanup Objective (possibly from a piece of plastic in the soil sample). Benzo(b)fluoranthene was detected above the Soil Cleanup Objective of 1,100 micrograms per kilogram ($\mu\text{g/kg}$) in two of the four samples analyzed (1,500 $\mu\text{g/kg}$ in TP-1H and 3,200 $\mu\text{g/kg}$ in TP-9H) and in one of the background samples (2,000 $\mu\text{g/kg}$). Benzo(k)fluoranthene was detected in one sample, TP-9H, at a concentration of 1,300 $\mu\text{g/kg}$, slightly above the Soil Cleanup Objective of 1,100 $\mu\text{g/kg}$. Benzo(a)pyrene and dibenz(a,h)anthracene were detected at levels exceeding the Soil Cleanup Objectives in three of the four samples analyzed, however, these compounds were also detected in each of the three background samples at concentrations above the Cleanup Objectives. No other semivolatile organic compounds were detected above their respective NYSDEC Soil Cleanup Objectives.

PCBs

Eleven subsurface soil samples and one surface soil sample from Parcel H were analyzed for PCBs. The surface soil sample was additionally analyzed for pesticides. Detectable levels of PCBs and pesticides are summarized in Table H-3. PCBs were not detected in any of the samples analyzed in concentrations exceeding the NYSDEC Soil Cleanup Objectives. Surface soil sample SS Parcel H contained the pesticides 4,4'-DDE and 4,4'-DDT at concentrations below the NYSDEC Soil Cleanup Objectives. No other pesticides were detected in the analyzed samples.

Metals

TAL Metals

Table H-4 summarizes the detected TAL metals in the twelve analyzed soil samples from Parcel H. Aluminum was detected in each of the samples analyzed at concentrations comparable to background concentrations. Arsenic was detected above the Soil Cleanup Objective of 7.5 mg/kg in three of the twelve samples analyzed, ranging from 9.6 in the surface soil sample to 19.1 mg/kg in sample TP-10H. Other arsenic results were qualified by the DUSR. Barium was detected at three locations (up to a maximum of 575 mg/kg), above the Soil Cleanup Objective of 300 mg/kg. Beryllium was detected in each of the samples analyzed, however, it was also detected in the laboratory blank and was qualified by the laboratory and the DUSR, and may be attributed to laboratory error in most samples. Cadmium was detected at a concentration of 40.2 mg/kg in sample TP-12H, above the Soil Cleanup Objective of 10 mg/kg. Elevated levels of calcium and magnesium were detected throughout the parcel, and may be naturally occurring (there are no Soil Cleanup Objectives for calcium and magnesium).

Elevated levels of iron and copper were detected throughout the parcel. Test pits unearthed large quantities of piping, reinforced concrete and wiring, which may account for the elevated levels of these metals. Lead was detected above the average site specific background concentration of 142 mg/kg in at least three of the twelve samples analyzed (an additional four samples were qualified by the DUSR). Mercury was detected above the average site background of 0.62 mg/kg in three subsurface and the one surface soil samples, to a maximum of 2.1 mg/kg in sample TP-12H. Nickel and zinc were detected in excess of the Soil Cleanup Objective in eight of the twelve soil samples analyzed. Selenium was detected above the Soil Cleanup Objective of 2.0 mg/kg in two of the twelve samples analyzed at concentrations of 2.2 and 4.3 mg/kg in samples TP-12H and TP-14H, respectively. Sodium, potassium and vanadium were not detected above the Cleanup Objective in any of the twelve samples analyzed.

RCRA Metals

Seven soil samples collected from Parcel H were analyzed for RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver). The results of this analysis are summarized in Table H-5. Arsenic and barium results were qualified by the DUSR and may not be present at concentrations above the Soil Cleanup Objectives. Lead was detected at concentrations ranging from 19.4 mg/kg in sample TP-18H to 12,200 mg/kg in sample TP-13BH.

Based on the elevated lead levels in the area of test pit 13H, two soil samples from test pit TP-13AH, one from four feet below grade and one from eight feet below grade, were additionally analyzed for lead using the Toxicity Characteristic Leaching Procedure (TCLP). The results of this analysis are summarized in Table H-6. Laboratory analysis yielded results of 110 mg/l and 332 mg/l, respectively, above the NYSDEC Hazardous Waste Regulatory Levels of 5.0 mg/l.

Parcel H Soil Results Summary

No volatile organic compounds, PCBs or pesticides were detected at concentrations that would necessitate remediation. Elevated levels of semivolatile organic compounds, including benzo(a)anthracene, chrysene, bis(2-ethylhexyl)phthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and dibenz(a,h)anthracene were detected in the central portion of the parcel that, although not considered hazardous, may require remediation. High concentrations of lead were detected in some areas, specifically in test pits TP-10H, TP-11H, TP-13H, TP-13AH and TP-13BH. Based on the results of the initial analysis, samples from test pit TP-13AH were analyzed for TCLP lead. Results indicated that these soils are considered hazardous by NYSDEC regulations and would require off-site removal. Other metals detected at elevated concentrations included arsenic, barium, cadmium, calcium, magnesium, iron, copper, mercury, selenium, nickel and zinc.

3.2.2 Parcel H Groundwater

Eight groundwater samples were collected from test pits and monitor wells on Parcel H and analyzed for volatile organic compounds, semivolatile organic compounds, PCBs, and total and dissolved TAL metals. The three test pit samples from the original sampling event were not filtered in the field or in the laboratory, and as such, the results may depict concentrations of metals in fine sediment. Although care was taken to settle the samples in the field, some sediments likely remained and could explain the elevated levels of metals in the groundwater, as evident from the turbidity readings summarized in Table H-11. Samples collected from the monitor wells were analyzed for both total and dissolved metals. Samples collected from the second round of test pits (TP-10AH-GW, TP-12H-GW and TP-13H-GW) were filtered in the field and analyzed for only dissolved metals.

Volatile Organic Compounds

Trichloroethene (TCE) was the only volatile organic compound detected in the groundwater samples analyzed. Concentrations of trichloroethene were above the NYSDEC Water Quality Standard of 5 $\mu\text{g/l}$ in two of the six samples analyzed from Parcel H at concentrations of 8.6 in sample TP-8H and 17 $\mu\text{g/l}$ in sample MW-1H. Concentrations of TCE were also detected during the soil gas survey, primarily in the western central portion of the parcel. No other volatile organic compounds were detected in the groundwater samples taken from Parcel H. These results are summarized in Table H-7.

Semivolatile Organic Compounds

Six groundwater samples were analyzed for semivolatile organic compounds, as summarized in Table H-8. No semivolatile organic compounds were detected in five of the six samples analyzed. Test pit sample TP-3H contained detectable amounts of six semivolatile organic compounds above the NYSDEC Water Quality Guidance Values. The concentrations ranged from 3.6 $\mu\text{g/l}$ of benzo(k)fluoranthene to 10 $\mu\text{g/l}$ of benzo(b)fluoranthene. The Water Quality Guidance Values for these semivolatile organic compounds is 0.002 $\mu\text{g/l}$. The groundwater sample was collected from test pit TP-3H was not filtered in the field or the laboratory. The presence of semivolatile organic compounds in the water sample is likely due to compounds adhered to the sediment contained in the sample, and is not indicative of actual groundwater quality. No other semivolatile organic compounds were detected in the other groundwater samples analyzed above Water Quality Standards or Guidance Values.

PCBs

PCBs were analyzed in nine samples from Parcel H. The results are summarized in Table H-9. PCBs were detected above the Water Quality Standard of 0.1 $\mu\text{g/l}$ in test pit TP-3H with a concentration 1.54 $\mu\text{g/l}$ (total PCBs). The groundwater sample was collected from a test pit and was not filtered. The presence of PCBs in the water sample was likely from sediment contained in the sample and is not dissolved in the groundwater. No other groundwater samples contained detectable concentrations of PCBs on Parcel H.

Metals

Concentrations of metals were detected in unfiltered samples above NYSDEC Water Quality Standards. Turbidity levels measured in three samples ranged from 460 NTU to 1,050 NTU. As such, concentrations of metals detected in unfiltered (total) samples may reflect the metals adhering to sediment, and may not be reflective of actual groundwater concentrations. The discussion in this report, therefore, focuses on dissolved (filtered) analysis. Results of the unfiltered samples are included in Table H-10 and in the laboratory reports in Appendix F.

A total of six samples, including a duplicate sample from monitor well MW-2H (MW-2HA), were analyzed for dissolved TAL metals. Magnesium was detected above the Water Quality Standard of 35,000 $\mu\text{g/l}$ in each of the six samples analyzed, with a maximum concentration of 209,000 $\mu\text{g/l}$. Manganese was detected above the Water Quality Standard of 300 $\mu\text{g/l}$ in three samples (TP-13H, MW-2H and MW-2HA). The presence of magnesium and manganese may be naturally occurring from the tidal influence of the Hudson River. Elevated concentrations of sodium were detected in each sample, and are likely naturally occurring from the Hudson River, which is saline in this area. Zinc was detected in groundwater samples collected from test pits TP-10AH, TP-12H and TP-13H at concentrations ranging from 568 to 946 $\mu\text{g/l}$, above the Water Quality Standard of 300 $\mu\text{g/l}$. No other metals were detected above the Water Quality Standards in the dissolved metals analysis.

Parcel H Groundwater Results Summary

Trichloroethene was detected at two locations slightly above the Water Quality Standard. Semivolatile organic compounds and PCBs were detected above Water Quality Standards at one location, TP-3H, located in the central portion of the parcel. The groundwater sample was collected from test pit TP-3H was not filtered. The presence of these compounds in the water sample was likely from sediment contained in the sample, and may not be indicative of actual groundwater quality. In addition, groundwater collected from test pits downgradient of TP-3H did not contain any semivolatile organic compounds or PCBs. Metals were detected in unfiltered (total) samples collected from test pits and monitor wells throughout the site. Although care was taken in sampling the groundwater, based on turbidity measurements, samples contained soil particles and may account for the elevated metals and PCB concentrations. Of the filtered (dissolved) analysis, only concentrations of magnesium, manganese and sodium were detected at elevated levels. These constituents may be naturally occurring from the Hudson River, which is saline and tidal in this area. Zinc was detected in groundwater collected from three test pits located along the northern and eastern sides of the parcel. The presence of zinc in the groundwater may be due to the large quantity of metal piping, beams and wiring located in these areas.

The Water Quality Standards used as a comparison for the groundwater results are based on potable sources of drinking water. Due to the tidal nature of the Hudson River and its salinity, the groundwater in this area is not potable. The Hudson River is also classified as "SB" in this area. Minor exceedances of the Water Quality Standards in the groundwater from Parcel H would not degrade the quality of the Hudson River due to the extensive dilution.

3.2.3 Parcel I Soil

Surface soil and subsurface soil samples were collected from Parcel I at the locations shown on Figure 3H&I. Analytical results are presented in Tables I-1 through I-3, and are discussed in the following sections.

One surface sample and one subsurface sample were collected from Parcel I and analyzed for semivolatile organic compounds, PCBs and TAL metals. The subsurface sample was additionally analyzed for volatile organic compounds, and the surface sample was additionally analyzed for pesticides.

Volatile Organic Compounds

No volatile organic compounds were detected in the soil sample analyzed from Parcel I. The complete laboratory results for Parcel I soil samples are included in Appendix F.

Semivolatile Organic Compounds

Table I-1 includes a summary of detected semivolatile organic compounds. Benzo(a)anthracene, was detected at concentrations of 350 $\mu\text{g/kg}$ in subsurface soil sample TP-4H and 370 $\mu\text{g/kg}$ in surface soil sample SS Parcel I, above the Soil Cleanup Objective of 224 $\mu\text{g/kg}$. The average background concentration of benzo(a)anthracene was 543 $\mu\text{g/kg}$, also above the Soil Cleanup Objective. Benzo(a)pyrene was detected at concentrations of 290 $\mu\text{g/kg}$ and 300 $\mu\text{g/kg}$ in the subsurface and surface soil samples, respectively, above the Soil Cleanup Objective of 61. The average background concentration of benzo(a)pyrene was 587 $\mu\text{g/kg}$, also above the Soil Cleanup Objective. Other elevated semivolatile organic compounds were detected, however, the values were qualified by the laboratory, and may not actually be present above the respective Soil Cleanup Objectives.

Pesticides/PCBs

No PCBs were detected in the soil samples analyzed. Pesticides dieldrin and 4,4'-DDT were detected in the surface soil sample analyzed from Parcel I. Dieldrin was detected at a concentration of 9.5 mg/kg, above the Cleanup Objective of 0.044 mg/kg and 4,4'-DDT was detected at a concentration of 9.8 mg/kg, above the Cleanup Objective of 2.1 mg/kg. No other pesticides were detected in the samples analyzed. Table I-2 includes a summary of detected pesticides. It is not known whether pesticides were actually sprayed in this area, or whether the presence of pesticides is due to dumping of the pesticides themselves, or from affected soil brought onto Parcel I as fill.

Metals

One subsurface and one surface soil sample were analyzed for TAL metals, as summarized in Table I-3. Arsenic was detected in test pit TP-4H at a concentration of 14.5 mg/kg, above the Soil Cleanup Objective of 7.5 mg/kg. Iron was detected in both samples at concentrations of 22,000 mg/kg in the subsurface sample and 11,300 mg/kg in the surface sample. The average site background for iron was 13,430 mg/kg. Beryllium was detected above the Soil Cleanup Objective of 0.14 mg/kg in sample TP-4H, at a concentration of 0.59 mg/kg, comparable to the site background of 0.49 mg/kg. No other metals were detected above their respective Soil Cleanup Objectives in either of the samples analyzed.

Parcel I Soil Results Summary

No PCBs or volatile organic compounds were detected in the soil samples analyzed. Only two semivolatile organic compounds were detected above the Soil Cleanup Objectives, but were within an order of magnitude of the Objectives and comparable to site specific background levels. Remediation of these soils is dependant on final planned usage of the area. Two pesticides were detected in the surface soil sample at concentrations above the Soil Cleanup Objectives. Removal of a limited quantity of soil in this area may be necessary. Iron was the

only metal detected in significant concentrations in the samples analyzed, but concentrations were within comparable concentrations to the site specific background concentrations.

3.2.4 Parcel I Groundwater

Three groundwater samples were collected from Parcel I; one sample from a test pit (TP-4H) and two samples from monitor wells MW-1I and MW-2I. The groundwater samples were analyzed for volatile organic compounds, semivolatile organic compounds, PCBs, and total and dissolved TAL metals. The groundwater sample collected from test pit TP-4H was not filtered in the field or in the laboratory, and as such, the results may depict concentrations of metals in fine sediment. Although care was taken to settle the samples, some sediments likely remained and could explain the elevated levels of metals in the groundwater, as evident from the turbidity readings summarized in Table I-6. None of the samples analyzed for semivolatile organic compounds were filtered. Samples collected from the monitor wells were analyzed for both total and dissolved metals.

Volatile Organic Compounds

No volatile organic compounds were detected in the groundwater samples from Parcel I.

Semivolatile Organic Compounds

Table I-4 summarizes the detected semivolatile organic compounds. The sample collected from test pit TP-4H contained detectable concentrations of benz(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene. The results, however, were not filtered and were also qualified by the laboratory. Actual concentrations may not be in excess of the Water Quality Guidance Values.

PCBs

No PCBs were detected in the groundwater samples from Parcel I.

Metals

Concentrations of metals were detected in unfiltered samples above NYSDEC Water Quality Standards. Turbidity readings measured of the two monitor well samples yielded results of 450 and 875 NTU. As such, concentrations of metals detected in unfiltered (total) samples may reflect the metals adhering to sediment, and may not be reflective of actual groundwater concentrations. The discussion in this report, therefore, focuses on dissolved (filtered) analysis. Results of both the filtered and the unfiltered samples are included in Table I-5 and in the laboratory reports in Appendix F.

Magnesium, manganese, and sodium were detected above their respective Water Quality Standards in both filtered samples. These metals may be naturally occurring from the Hudson River, as the river is saline and tidal in this area. Iron was detected in one of the filtered samples at a concentration of 8,450 $\mu\text{g/l}$, above the Water Quality Standard of 300 $\mu\text{g/l}$. No other metals were detected above the Water Quality Standards in the filtered samples from Parcel I.

Parcel I Groundwater Results Summary

No volatile organic compounds or PCBs were detected in the samples analyzed from Parcel I. Semivolatile organic compounds were detected in the groundwater sample collected from test pit TP-4H, however, the sample was not filtered and the values were qualified by the laboratory. Concentrations, therefore, may not actually exceed Water Quality Standards. Groundwater samples collected from the monitor wells located both upgradient and downgradient of the TP-4H did not contain any detectable levels of any semivolatile organic compounds. Metals were detected in unfiltered (total) samples collected from test pits and monitor wells throughout the site. Although care was taken in sampling the groundwater, based on turbidity measurements, samples contained soil particles which may account for the elevated metals readings. Of the filtered (dissolved) analysis, only concentrations of magnesium and sodium were detected at elevated levels in both monitor well samples. These constituents may be naturally occurring from the Hudson River, which is saline and tidal in this area. Iron was additionally detected in the groundwater sample collected from MW-II above the Water Quality Standard. Concentrations of iron detected in the groundwater samples is likely due to the large quantities of metallic objects, including piping, metal bars and building debris located throughout the parcel.

3.2.5 Parcel C Soil

Subsurface soil samples were collected from Parcel C at the specific locations shown on Figure 3C. Parcel C was completely covered with asphalt pavement, therefore, no surface soil samples were collected. Analytical results are presented in Tables C-1 through C-4.

Six subsurface soil samples were collected and analyzed from Parcel C and analyzed for volatile organic compounds, semivolatile organic compounds, PCBs and TAL metals. Two samples were additionally analyzed for pesticides.

Volatile Organic Compounds

Detected volatile organic compounds are summarized in Table C-1. Concentrations of volatile organic compounds detected but qualified by the laboratory and/or the DUSR include acetone, carbon disulfide, 2-butanone, trichloroethene, benzene, tetrachloroethene, toluene, ethylbenzene and xylenes. None of the concentrations of these compounds exceeded the NYSDEC Soil

Cleanup Objectives. No other volatile organic compounds were detected in the samples analyzed.

Semivolatile Organic Compounds

Table C-2 includes a summary of detected semivolatile organic compounds. Elevated concentrations of 2-methylnaphthalene were detected in three of the soil samples analyzed from Parcel C, however, the samples were qualified by the laboratory, and the actual concentrations are not able to be determined. Sample B-7C contained concentrations of benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and dibenz(a,h)anthracene at concentrations above the respective NYSDEC Soil Cleanup Objectives. Benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene and dibenz(a,h)anthracene were also detected in background samples above their respective Soil Cleanup Objectives. All semivolatile organic compounds detected in sample B-1C were qualified by the laboratory and/or the DUSR. The listed concentrations are approximate values and may not be present above Soil Cleanup Objectives. Samples B-5C and MW-4C contained benzo(a)pyrene at concentrations of 180 $\mu\text{g/kg}$ (qualified by the DUSR and is an estimated value) and 110 $\mu\text{g/kg}$, respectively, above the Soil Cleanup Objective of 61 $\mu\text{g/kg}$. The average site specific background concentration of benzo(a)pyrene was 587 $\mu\text{g/kg}$, also above the Soil Cleanup Objective.

The soil sample sent for laboratory analysis from boring B-7C had a PID reading in the field of 2.3 ppm. The sample, S-4 collected from six to seven feet below grade, was also noted to have a slight petroleum odor. This sample was collected from just above the measured water table during drilling of seven feet below grade. The samples above and below S-4 did not have a petroleum odor and no volatile organic compounds were detected by the PID. The presence of the semivolatile organic compounds in this sample appear to be localized and may have been transported to this location on the groundwater table, which is tidal in this area. Although the sample was above the groundwater table at the time the boring was advanced, this elevation may be at or in the groundwater table at other times. The sample collected from boring B-1C, where elevated concentrations of semivolatile organic compounds were also detected in the laboratory, was collected from five to seven feet below grade, just above refusal. The groundwater table was not intercepted due to refusal, however, groundwater was measured to be 7.5 feet below grade at monitor well MW-2C, located approximately 30 feet west of boring B-1C. Due to the tidal nature of the Hudson River, groundwater may be higher in this area at other times as well. The presence of semivolatile organic compounds in soil just above the groundwater table may not be indicative of a petroleum problem on the parcel. In addition, none of the groundwater samples analyzed for semivolatile organic compounds were filtered. Detected concentrations may represent compounds adhering to soil particles and may not represent actual groundwater conditions. No other semivolatile organic compounds were detected above their respective Cleanup Objectives.

Pesticides/PCBs

Six subsurface samples from Parcel I were analyzed for PCBs. No PCBs were detected in any of the samples analyzed. Two of the six samples were additionally analyzed for pesticides. Chlordane was detected in both samples at concentrations of 190 $\mu\text{g/kg}$ in sample B-6C and 210 $\mu\text{g/kg}$ in sample B-5C, below the Cleanup Objective of 540 $\mu\text{g/kg}$. These results are summarized in Table C-3.

Metals

Six soil samples from Parcel C, were tested for TAL metals. The results are summarized in Table C-4. Barium was detected in sample B-7C at a concentration of 306 mg/kg, slightly above the above the Soil Cleanup Objective of 300 mg/kg. Copper was detected in four of the samples collected at concentrations up to 393 mg/kg in sample B-1C, above the Soil Cleanup Objective of 25 mg/kg. Iron was detected in five of the six samples analyzed at concentrations up to 20,300 mg/kg in sample B-5C, above the average site specific background concentration of 13,433 mg/kg. Lead was detected above the average site specific background concentration of 142 mg/kg at two locations, B-1C and B-7C, at concentrations of 468 mg/kg and 998 mg/kg, respectively. Elevated concentrations of magnesium were detected above the average site background in four of the six samples analyzed. Mercury was detected at one location, B-7C, at a concentration of 1.6 mg/kg, above the average site specific background of 0.62 mg/kg. The highest background concentration of mercury was 1.4 mg/kg. Nickel was detected above the average site background of 13.50 mg/kg in two of the six samples analyzed, up to a maximum of 16.9 mg/kg in sample B-1C. No other metals were detected above their respective Soil Cleanup Objectives in the six samples analyzed.

Parcel C Soil Results Summary

No volatile organic compounds or pesticides were detected in concentrations that would require remediation. No PCBs were detected in the soil samples analyzed. Semivolatile organic compounds were detected primarily at two locations, B-1C and B-7C in the northeastern and central portions of the parcel, at concentrations above the NYSDEC Soil Cleanup Objectives. Reported concentrations of all compounds listed in sample B-1C, however, were qualified by the laboratory and/or the DUSR. Reported values are estimated and may not be present above Soil Cleanup Objectives. Many of these compounds were also detected in background samples above the Cleanup Objectives. Iron was detected at elevated concentrations at each location, but within the same order of magnitude and comparable to background levels. Lead was detected at two locations above the average background concentration in samples B-1C and B-7C. Other metals detected above Soil Cleanup Objectives were comparable to concentrations detected in background samples. Some soil removal may be necessary in the central and northeastern portions of the parcel dependant upon proposed development plans.

3.2.6 Parcel C Groundwater

Three groundwater samples were collected from the two monitor wells installed on Parcel C. Sample MW-4AC is a duplicate sample of MW-4C. The samples were field filtered and analyzed for volatile organic compounds, semivolatile organic compounds, PCBs and dissolved TAL metals.

Volatile Organic Compounds

Methylene chloride was detected in the three groundwater samples collected on Parcel C, but the values were qualified by the DUSR and may not be present above the Water Quality Standard. The sample collected from monitor well MW-4C was listed as containing cis-1,2-dichloroethene at a concentration below the Water Quality Standard. This value was also qualified by the laboratory. No other volatile organic compounds were detected in the groundwater samples collected on Parcel C. These results are summarized in Table C-5.

Semivolatile Organic Compounds

Phenol was detected on Parcel C at a concentration of 2.4 $\mu\text{g/l}$, above the Water Quality Standard of 1 $\mu\text{g/l}$, however, this value was qualified by the laboratory and is an approximate value. Phenol may not actually be present above the Water Quality Standard. No other semivolatile organic compounds were detected above their respective Water Quality Standards. A summary of the detected levels of semivolatile organic compounds on Parcel C is included in Table C-6.

PCBs

No PCBs were detected in the groundwater samples from Parcel C.

Metals

Samples collected from Parcel C were field filtered and analyzed for dissolved TAL metals. The results are summarized in Table C-7. Manganese and sodium were detected above the Water Quality Standards in each of the samples analyzed and magnesium was detected in two of the three samples analyzed above the Water Quality Standard. The presence of these metals may be naturally occurring from the Hudson River, which is tidal and saline in this area. Iron was detected at concentrations ranging from 333 to 3,650 $\mu\text{g/l}$, exceeding the Water Quality Standard of 300 $\mu\text{g/l}$ in the three samples. No other metals were detected above their respective Water Quality Standards in any of the samples analyzed.

Parcel C Groundwater Results Summary

Methylene chloride was detected in the three groundwater samples collected on Parcel C, but the values were qualified by the DUSR and may not be present above the Water Quality Standard. Phenol was detected in the groundwater sample collected from monitor well MW-2C, however, the value was qualified by the laboratory. The reported value is approximate, and the concentration and may not actually be present above the Water Quality Standard. Iron, magnesium, manganese and sodium were detected at concentrations above the respective Water Quality Standards. Magnesium, manganese and sodium are likely naturally occurring due to the saline and tidal nature of the Hudson River. Iron in the groundwater is likely from the leaching of the iron contained in the fill materials.

4.0 SUMMARY AND CONCLUSIONS

Field screening activities included electromagnetic (EM), soil gas and ground penetrating radar (GPR) surveys. The results of the field screening activities are discussed in detail in Chapter 2 and were utilized in choosing subsequent test pit, soil boring and monitor well locations. Figures 4C, 5C, 4H&I and 5H&I illustrate the results of the preliminary surveys and Figures 3C and 3H&I depict the soil and groundwater sampling locations.

4.1 Parcel H

The electromagnetic (EM) survey of Parcel H indicated possible buried 55-gallon drums, buried metallic objects and subsurface piping. These locations were investigated further through other field screening tests including a GPR and soil gas surveys, test pit excavations and soil borings. The locations of the test pits and soil borings are presented in Figure 3H&I. The results of the soil gas survey indicated possible sources of contamination in the western central portion of the parcel. A monitor well (MW-1H) was installed in the vicinity of the elevated soil gas concentration.

A ground penetrating radar (GPR) survey was conducted to better delineate the anomalies detected during the EM survey. The results of the GPR survey indicated four small unidentified buried objects in the central portion of the parcel. Based on these findings, and in conjunction with the EM survey results, test pit locations were selected.

Twenty test pits were excavated on Parcel H at locations presented on Figure 3H&I. Based on PID readings and visual inspection, soil samples from the test pits were collected and submitted for laboratory analysis. A 55-gallon drum was excavated in test pit TP-11H in the area of the EM survey anomaly. Laboratory analysis of the liquid contained within the drum determined the contents to be No. 2 fuel oil (with no PCBs). Test pits excavated in the northern and central regions of Parcel H, particularly TP-11H, TP-2H, TP-3H, TP-11AH and TP-12H, encountered sand and gravel fill with concrete, plastic wire casing (it appeared that the copper had been stripped out of the

plastic housing), metal piping, asphalt, coal ash and steel reinforced concrete. The steel reinforced concrete and brick were likely the anomalies detected by the EM and GPR surveys.

Test pit TP-1H was excavated in the northern section of Parcel H, just south of the undeveloped road, to investigate the significant anomalies detected during the EM survey. Approximately ten twenty foot steel I-beams, eight three-inch pipes, and other miscellaneous debris including wood and concrete were encountered along the northern portion of the parcel, which would account for the anomalies detected in the EM and GPR surveys. The piping appeared to be underground storage tank lines. The pipes were excavated until the ends were located to determine whether they were connected to remaining underground storage tanks. No tanks were located; the pipes appeared to be sealed at both ends with concrete.

Based on the results of the field screening activities, two soil borings, both retrofitted with monitor wells, were advanced on the east and west periphery of Parcel H as upgradient and down gradient sampling locations. The monitor well installed on the northwestern corner of the parcel (MW-1H) was located in an area where elevated levels of volatile organic compounds were observed in the soil gas survey. Groundwater samples were collected from the two monitor wells for laboratory analysis.

Four subsurface and six groundwater samples were collected from Parcel H and analyzed for TCL volatile organic compounds. No detected soil concentrations exceeded NYSDEC Soil Cleanup Objectives. Trichloroethene was detected slightly above the NYSDEC Water Quality Standard in two groundwater samples analyzed from Parcel H.

One surface soil sample, three subsurface soil samples, and six groundwater samples collected from Parcel H were analyzed for TCL semivolatile organic compounds. Semivolatile organic compounds were detected above NYSDEC Soil Cleanup Objectives in soil samples analyzed throughout the parcel. Test pit TP-3H contained semivolatile organic compounds in excess of Water Quality Standards, however, this sample was not filtered and may not represent actual groundwater conditions. No other groundwater samples contained any detected concentrations of semivolatile organic compounds.

One surface soil sample, eleven subsurface soil samples and nine groundwater samples collected from Parcel H were analyzed for pesticides and PCBs. No detected soil concentrations exceeded NYSDEC Soil Cleanup Objectives. PCBs were detected above the NYSDEC Water Quality Standard in one groundwater sample collected from test pit TP-3H. This sample was not filtered prior to PCB analysis. Since PCBs are not very soluble, the likely cause of the PCBs detected in the groundwater sample is the presence of sediment, to which the PCBs could have adhered.

One surface soil sample and twenty-one subsurface soil samples collected from Parcel H were analyzed for TAL metals. Metals were detected above NYSDEC Soil Cleanup Objectives throughout the parcel. Five groundwater samples and one duplicate sample were analyzed for total

(unfiltered) TAL metals. Metals were detected at concentrations exceeding NYSDEC Water Quality Standards. Five groundwater samples and one duplicate sample were subsequently analyzed for dissolved (filtered) TAL metals. Magnesium, sodium, zinc and manganese were detected above the NYSDEC Water Quality Standards. Magnesium, sodium and manganese are naturally occurring elements of saline water and are likely present due to the tidal action of the Hudson River. Zinc is a naturally occurring element in sea water, but at a concentration of approximately 10 $\mu\text{g/l}$. Zinc was detected in filtered samples at Parcel H at concentrations up to 946 $\mu\text{g/l}$ and is likely present from the galvanized metals in the fill noted throughout the site.

Two subsurface soil samples were additionally analyzed for lead using TCLP. Both of the samples were collected from different depths in test pit 13-AH, located on the northern extent of the parcel. The sample results were above the NYSDEC Hazardous Waste Regulatory Levels for toxicity characteristic and would, therefore, be considered hazardous waste. Other samples yielded total lead levels comparable to those detected in test pit TP-13H, namely test pits TP-10H and TP-11H. Although samples from these test pits were not analyzed using TCLP, based on the total lead levels, soil in these areas should also be considered hazardous.

4.2 Parcel I

The results of the GPR survey did not indicated any anomalies on Parcel I. The electromagnetic (EM) survey for Parcel I indicated the presence of three large blocks. These locations were further investigated using a soil gas survey, test pits and borings/monitor wells. The locations of the test pits are presented in Figure 3H&I. The results of the soil gas survey indicated possible sources of contamination throughout the parcel, but with no discernable pattern or single source.

The results of the EM and soil gas surveys were used to determine the location of the subsurface investigations. Three test pits were excavated on Parcel I corresponding to the three major anomalies in the EM survey: one in the northwestern corner of the parcel; one in the center of the parcel; and one on the eastern central portion of the parcel. Based on visual inspection, a soil sample from test pit TP-4H was collected and submitted for laboratory analysis. Test pit excavations encountered sand and gravel fill with black ash and steel reinforced concrete, which would account for the EM anomalies. No tanks were located in the excavations on Parcel I.

Two soil borings were advanced on Parcel I, both retrofitted with monitor wells, on the northeastern and southwestern portions of the parcel to serve as upgradient and downgradient groundwater sampling locations. Groundwater samples were collected from the two monitor wells for laboratory analysis.

One subsurface soil sample and three groundwater samples (two from monitor wells and one from a test pit) collected from Parcel I were analyzed for volatile organic compounds. No volatile organic compounds were detected in the soil or groundwater collected from Parcel I.

One surface soil and one subsurface soil sample collected from Parcel I were analyzed for semivolatile organic compounds. Semivolatile organic compounds were detected at concentrations above NYSDEC Soil Cleanup Objectives. Three groundwater samples collected from Parcel I were analyzed for semivolatile organic compounds. Semivolatile organic compounds were detected in the sample collected from the test pit (TP-4H), however, the results were qualified by the laboratory and may not actually be present above NYSDEC Water Quality Guidance Values. In addition, the sample was not filtered and may not reflect actual groundwater conditions.

One surface soil sample, one subsurface soil sample and three groundwater samples collected from Parcel I were analyzed for pesticides and PCBs. The surface soil sample contained pesticides at levels exceeding NYSDEC Soil Cleanup Objectives. No other pesticides or PCBs were detected in the soil and groundwater samples.

One surface and one subsurface soil sample collected from Parcel I were analyzed for TAL metals. Metals were detected at concentrations exceeding NYSDEC Soil Cleanup Objectives. Three groundwater samples were analyzed for total (unfiltered) TAL metals. Metals were detected at concentrations exceeding NYSDEC Water Quality Standards. Two groundwater samples from the monitor wells were analyzed for dissolved (filtered) TAL metals. Iron, magnesium, manganese and sodium were detected at concentrations exceeding NYSDEC Water Quality Standards. Elevated concentrations of magnesium, manganese and sodium are likely due to the tidal nature of the Hudson River, which is saline, and naturally contains these elements. Iron was also detected in the soil samples analyzed, and is likely present in the groundwater from the leaching of the iron contained in the fill materials. Groundwater in this area is not a potable source, and an exceedance of this magnitude would not adversely affect the quality of the Hudson River.

4.3 Parcel C

The electromagnetic (EM) survey for Parcel C indicated anomalies in the northwestern, southern and eastern portions of the parcel. Large anomalies were also detected in the center of the parcel. This detection in the center of the parcel had the possible fingerprint of a buried tank.

The results of the soil gas survey indicated possible sources of contamination in the north-central sections of the parcel (EM results also indicated anomalies in the north-central area of the parcel). The GPR survey was conducted in regions which showed large anomalies in the EM survey. The results indicated one anomaly in the central portion of the parcel.

The combined results of the EM survey, the GPR survey, and soil gas survey were used to determine the location of the subsurface investigation. Due to the current usage of Parcel C as a paved parking lot, no test pits were excavated on the parcel. Eight soil borings were advanced on the parcel, two of which were retrofitted with monitor wells. One boring was advanced in the central portion of Parcel C. One boring was advanced in the northeastern corner and one boring was advanced in the south-central portion of the parcel. Three borings were advanced in the northwestern corner of the

parcel. Monitor wells were installed in two borings located in the northeastern and southwestern corners of the parcel to act as upgradient and down gradient sampling locations. Several borings encountered concrete block at approximately three to four feet below grade, which may account for the EM anomalies. No underground storage tanks were located.

Six subsurface soil samples collected from Parcel C were analyzed for volatile organic compounds. No detected soil concentrations exceeded NYSDEC Soil Cleanup Objectives. Three groundwater samples collected from Parcel C were analyzed for volatile organic compounds. Methylene chloride was detected at both locations, however, the results were qualified by the DUSR. Actual concentrations may not exceed the NYSDEC Water Quality Standards.

Six subsurface soil samples and three groundwater samples collected from Parcel C were analyzed for semivolatile organic compounds. Semivolatile organic compounds were detected above Soil Cleanup Objectives in three of the soil samples. Phenol was detected in the groundwater sampled from monitor well MW-2C, however, the result was qualified by the laboratory, and may not actually be present above the Water Quality Standard. In addition, the sample was not filtered and may not be indicative of actual groundwater quality.

Six subsurface soil samples and three groundwater samples collected from Parcel C were analyzed for pesticides and PCBs. Chlordane was detected at concentrations below the Soil Cleanup objective in two of the soil samples analyzed. No other samples contained detectable concentrations of pesticides or PCBs.

Six subsurface soil samples collected from Parcel C were analyzed for TAL metals. Metals were detected at concentrations exceeding NYSDEC Soil Cleanup Objectives. Three groundwater samples were analyzed for dissolved (filtered) TAL metals. Iron, magnesium, manganese and sodium were detected at concentrations exceeding NYSDEC Water Quality Standards. Magnesium, manganese and sodium are likely naturally occurring due to the saline and tidal nature of the Hudson River. Iron was also detected in the soil samples analyzed, and is likely present in the groundwater from the leaching of the iron contained in the fill materials. Groundwater in this area is not a potable source, and an exceedance of this magnitude would not adversely affect the quality of the Hudson River.

4.4 Discussion

In summary of the analytical results, elevated concentrations of semivolatile organic compounds, PCBs, pesticides and metals were detected in surface soils, subsurface soils and groundwater. Based on the known history of the area parcels, the source of the elevated compounds and metals is possible contaminated fill used to construct the parcels, spills and leaks from the industrial facilities over time (Parcel C), and likely disposal of contaminants from area facilities (likely the wire drawing mill previously located on Parcel F) onto Parcels H and I.

Parcel C was occupied by Rockwell and Thomas Lumber Yard and a portion of Lawrence Brothers Lumber Yard from some time before 1886 until 1917. In 1917, Parcel C was occupied by the Otis Elevator Corporation, which included on-site coal and sand storage. In 1951, the Plaza Sand and Stone Company was located on a portion of the parcel, which, in 1971, included an asphalt mixing plant and repair shop. By 1991, Parcel C was primarily an asphalt paved parking lot.

Parcels H and I did not exist until after 1951, after which the land was constructed from fill materials. The origin of the fill materials is not known. The two parcels have been vacant since they were constructed. Contaminants appear to have originated from off-site activities that deposited building materials and debris, petroleum products and ash fill on the parcels, which were observed in the test pits and borings.

5.0 RECOMMENDATIONS

Based on the analytical results, soil removal is necessary for three areas that contain hazardous waste on Parcel H, and may be necessary as a means of remediation on other portions of Parcel H, and on Parcels C and I, depending on final usage. Capping, possibly in concert with soil removal in some areas, is also a viable means of remediation. Plans for Parcels H, I and C, according to the Draft Generic Environmental Impact Statement prepared by Allee King Rosen & Fleming, Inc. in May 1998, include residential, office and retail development and paved streets and walkways. The portion of Parcel J abutting Parcels H and I will also include a park along the Hudson River, bordering the western side of the parcels.

Proposed Parcel C plans include a building and pavement over most of the parcel. Wells Avenue will continue down to the waterfront, along the northern portion of the Phase II section of Parcel C (not included in this study). The promenade will be located along the Hudson River and will consist mainly of hardscape, possibly with some small planters. A new road, Front Street, will be constructed east-adjacent to the Promenade. Front Street will connect to Wells Avenue to the north and Dock Street to the south, which will be extended to the waterfront from its present terminus. The area between the proposed Front Street and the existing railroad tracks will contain a building and paved areas. There may be planted borders between the building and the proposed streets, which would be the only type of uncapped areas. A cap may consist of a thin low permeability surface (e.g., asphalt or concrete), a building, or a thicker surface with greater permeability (e.g., a layer of clean soil).

The final plans for Parcels H and I will include buildings, pavement, and a park along the western portion of the parcels. A new road, Riveredge Road, will encompass Parcel I and the southern portion of Parcel H. The interior area of Riveredge Road will include a building and pavement. The only landscaped areas may consist of a planted border between the road and the building. Water Grant Street will be constructed primarily where the unpaved access to the parcels is currently located, along the eastern property lines. A planted border may line either side of the street. A park will be located along the Parcel J sections along Parcels H and I. The park is proposed to be 60 feet in width at its widest portion and will contain hardscaped walkways, but primarily will consist of

landscaping. These areas that would not be capped with impermeable surfaces may require soil removal and/or placement of a layer of clean soil.

The interim plan for Parcel H and a portion of Parcel I will be a paved parking lot. The lot will be used by the residents of the Scrimshaw House, northern abutter to Parcel H, while their present lot (Parcel F) is being constructed. The utilities and roadways will be installed at the time of the interim parking lot construction.

AKRF recommends implementing a Health and Safety Plan for the removal of the hazardous materials and also for the construction of the sites, including dust monitoring during excavation and disturbance of surface soils. Gloves should be used by all workers who come in contact with the soils. In addition, petroleum contaminated soils exhibiting nuisance characteristics, as defined by the New York State Department of Environmental Conservation STARS Memo #1, Petroleum-Contaminated Soil Guidance Policy, including petroleum-type odors and contamination concentrations above 10,000 parts per billion (ppb) of an individual volatile organic compound (VOC) or semivolatile organic compound (SVOC), should be stockpiled on and covered with plastic until a disposal method is chosen. If the soil is to be disposed of off-site, additional analysis, including TCLP analysis, should be performed.

TABLES

PARCEL H

Soil Table H-1
Soil Analytical Summary - Volatile Organic Compounds
Yonkers Downtown Waterfront
Parcel H
($\mu\text{g}/\text{kg}$)

Compound	TP-1H ¹	TP-9H ¹	TP-10H ¹	TP-11AH ²	Soil Cleanup Objective ³
Acetone ⁴	110	57J	84J	9	200
2-Butanone	13J	3.2J	6R	ND	300
1,1,1-Trichloroethane	1.4J	2.5J	2.5J	ND	800
Trichloroethene	ND	ND	2.2	ND	700
Benzene	1.1J	ND	2.4	ND	60
Tetrachloroethene	ND	ND	6.1J	ND	1,400
Toluene	1.6J	1.8J	1.9J	ND	1,500
Total Xylenes	1.0J	1.0J	ND	ND	1,200

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State certified CLP laboratory.

²Sample collected by AKRF, Inc. personnel on January 27, 1999 and analyzed for TCL VOCs and RCRA metals by Severn Trent Laboratories, a New York State certified CLP laboratory.

³New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup objectives and Cleanup Levels (HWR-92-4046).

⁴Acetone was only found in the trip blank and method blank in the January 1999 sampling run.

ND = None detected above the minimum detection level (MDL)

R = Reported value is unusable and rejected due to variance from quality control limits.

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

$\mu\text{g}/\text{kg}$ = micrograms per kilogram (ppb)

Soil Table H-2
Soil Analytical Summary - Semivolatile Organic Compounds
Yonkers Downtown Waterfront - Parcel H¹
($\mu\text{g/kg}$)

Compound	TP-1H	TP-9H	TP-10H	SS Parcel H ²	Soil Cleanup Objective ³	BG-1 ⁴	BG-2 ⁴	BG-3 ⁴
4-Methylphenol	100J	ND	ND	12J	90	NA	NA	NA
1,4-Dichlorobenzene	ND	ND	ND	11J	8,500	NA	NA	NA
Naphthalene	110J	46J	ND	47J	13,000	18J	9.7J	20J
2-Methylnaphthalene	73J	26J	ND	42J	36,400	NA	NA	NA
Acenaphthylene	120J	130J	ND	65J	41,000	27J	36J	78J
Acenaphthene	76J	100J	ND	74J	50,000	29J	ND	75J
Dibenzofuran	58J	61J	ND	54J	6,200	NA	NA	NA
Fluorene	84J	120J	ND	86J	50,000	28J	13J	75J
Phenanthrene	1,000	2,400	ND	780	50,000	310J	95J	1,200
Anthracene	310J	610J	ND	210J	50,000	72J	35J	200J
Carbazole	110J	110J	ND	80J	NA	NA	NA	NA
Fluoranthene	1,700	5,100	4,100J	1,200	50,000	600J	240J	2,600
Pyrene	1,700	4,800	3800J	1,200	50,000	520J	220J	2,200
Benzo(a)anthracene	860	2,400	1,800J	680	224 or MDL	290	140	1,200
Chrysene	1,100	2,500	1,800J	780	400	370J	180J	1,600
bis(2-Ethylhexyl)phthalate	330J	ND	980,000	170J	50,000	NA	NA	NA
Benzo(b)fluoranthene	1,500	3,200	ND	920	1,100	450	240	2,000
Benzo(k)fluoranthene	620	1,300	ND	330	1,100	170	83	860
Benzo(a)pyrene	910	2,500	ND	580	61 or MDL	300	160	1,300
Indeno(1,2,3-cd)pyrene	300	1,100	ND	220	3,200	180	87	580
Dibenz(a,h)anthracene	100	290J	ND	57	14 or MDL	40J	21J	140
Benzo(g,h,i)perylene	300J	980	ND	180J	50,000	200J	89J	510J

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, 1998 and July 30, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State Department of Health certified CLP laboratory.
²SS Parcel-H is the surface soil sample collected from Parcel H.
³New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).
⁴BG = Background Sample
MDL = Minimum Detection Level
NA = Not Analyzed
ND = Not detected
J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.
 $\mu\text{g/kg}$ = micrograms per kilogram (ppb)

Soil Table H-3
Soil Analytical Summary - Pesticides/PCBs
Yonkers Downtown Waterfront - Parcel H
($\mu\text{g/kg}$)

Soil Sample ¹	PCBs	4,4' - DDE	4,4' - DDT	Methoxychlor
TP-1H (subsurface)	760	NA	NA	NA
TP-9H (subsurface)	ND	NA	NA	NA
TP-10H (subsurface)	2,800	NA	NA	NA
TP-10AH (subsurface)	4,760	NA	NA	NA
TP-11H (subsurface)	1,440	NA	NA	NA
TP-12H (subsurface)	280	NA	NA	NA
TP-13H (subsurface)	7,900	NA	NA	NA
TP-14H (subsurface)	ND	NA	NA	NA
TP-15H (subsurface)	ND	NA	NA	NA
TP-16H (subsurface)	840	NA	NA	NA
TP-17H (subsurface)	ND	NA	NA	NA
SS Parcel H ² (surface)	160	13	46	11*
Soil Cleanup Objective ²	1,000 (Surface)/ 10,000 (Subsurface)	2,100	2,100	Total pesticides < 10

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, July 30, and October 28, 1998 and analyzed for TCL VOCs and SVOCs and PCBs and Pesticides and TAL metals by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.

²New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).

* = Duplicate analysis is not within control limits.

ND = Not Detected

NA = Not Analyzed

$\mu\text{g/kg}$ = micrograms per kilogram (ppb)

Soil Analytical Summary - TAL Metals
Yonkers Downtown Waterfront - Parcel H' (mg/kg)

Metal	TP-1H	TP-9H	TP-10H	TP-10AH'	TP-11H	TP-12H	TP-13H	TP-14H	TP-15H	TP-16H	TP-17H	SS Parcel H'	Soil Cleanup Objective'	BG-1'	BG-2'	BG-3'
Aluminum	7,860	8,180	4,100	5,990	4,890	6,690	6,700	1,390	3,290	8,070	3,490	12,500	BG	8,450	8,970	6,020
Antimony	ND	ND	8.4	5.0J	12.8J	6.5J	35.2J	1.9J	ND	ND	ND	ND	30 or BG	ND	ND	ND
Arsenic	14.1	3.2	19.1	12.8J	5.5J	32.3J	31.8J	37.8J	ND	2.6J	1.4J	9.6	7.5	3.3	6.2	3.1
Barium	99.2	93.9	426	278	40.8B	433	575	125	12.4B	111	17.9B	80.5	300 or BG	85.4	74.0	62.3
Beryllium	0.40B	0.34B	0.33B	0.39B	0.28B	0.40B	0.44B	0.38B	0.39J	0.42B	0.49	0.54	0.14	0.49	0.45B	0.35B
Cadmium	0.25B	ND	4.3	2.1	0.39B	40.2	9.1	ND	ND	ND	ND	ND	10 or BG	0.28B	0.13B	0.20B
Calcium	13,300	21,500	25,600	15,900	5,080	19,600	19,000	1,940	2,460	9,760	2,400	4,440J	BG	2,430	3,540	3,310
Chromium	19.4	31.2	30.8	27.2J	17.8J	20.3J	63.3J	10.8J	3.9	20.7J	7.3J	19.4	50 or BG	16.7	20.9	14.3
Cobalt	7.8B	5.8B	11.6B	6.5B	6.8B	8.9B	12.4	6.1B	1.6B	5.8B	1.9B	5.9B	30 or BG	ND	ND	ND
Copper	187	28.8	6,890	2,980	2,660	429	12,900J	31.3	10.9	156	16.0	37.7	25 or BG	25.6	20.2	22.6
Iron	25,900	14,800	21,700	23,500	14,300	46,200	63,700	39,500	10,400	17,000	9,480	17,000	2,000 or BG	14,300	13,700	12,300
Lead	266	81.3	5,400	2,820J	15,100J	453J	19,200	49.6J	7.6J	285J	18.1J	135J	BG	243	87.2	95.8
Magnesium	5,000	6,210	8,540	5,330	5,140	6,430	4,890	132B	1,160	4,650	1,600	3,450J	BG	2,800	3,440	2,630
Manganese	314	259	299	281J	237J	435J	675J	25.9J	180J	221J	154J	435	BG	494	292	338
Mercury	1.1	0.86	0.38	0.35	0.10	2.1	0.41	0.08	0.04	1.2	1.3	1.5	0.1 or BG	0.31	1.4	0.14
Nickel	23.1	22.6	51.0	29.3	21.3	33.4	61.1	9.6B	3.2B	17.1	5.3B	14.1	13 or BG	13.7	15.4	11.5
Potassium	1,600	2,580	874B	2,180J	797J	1,370J	1,030J	738J	1,880J	3,360J	1,770J	818J	4,000 or BG	573B	1,550	795B
Selenium	ND	ND	ND	ND	ND	2.2	1.9	4.3	ND	ND	ND	ND	2 or BG	ND	ND	ND
Silver	ND	ND	31.9	7.0	3.6	2.2	41.8	ND	ND	ND	ND	ND	BG	ND	ND	ND
Sodium	173B	220B	421B	150B	529B	334B	537B	ND	ND	148B	ND	893B	3,000 or BG	ND	ND	ND
Vanadium	25.5	26.8	18.9	22.6J	16.4J	78.5J	26.9J	26.5J	7.5J	23.8J	7.7J	31.4	150 or BG	20.8	24.3	17.0
Zinc	187	102	3,930	1,530	911	3,600	10,500	21.1	79.4	213	82.1	106	20 or BG	165	68.8	107

Notes: 'Samples collected by AKRF, Inc. personnel on June 15 and 16, July 30, and October 28, 1998 and analyzed for TCL VOCs and SVOCs and TAL metals by Envirotech Research, Inc.

'SS Parcel-H' is the surface soil sample collected from Parcels H.

'New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).

'BG = Background Sample

B = analyte result between instrument detection limit (IDL) and contract required detection limit (CRDL)

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

ND = Not Detected; mg/kg = milligrams per kilogram (ppm)

Soil Table H-5
Soil Analytical Summary - RCRA Metals
Yonkers Downtown Waterfront - Parcel H
(mg/kg)

Soil Sample ¹	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TP-10B-H	32.6J	454J	3.3J	19.8J	1,430	0.53	1.8J	4.2J
TP-11A-H	10.1J	134J	0.19UJ	11.6J	1,490	0.48	0.61J	0.25J
TP-11B-H	12.1J	161J	0.20UJ	10.8J	585	0.6	1.0J	0.20U
TP-13A-H	17.9J	430J	4.8J	44.7J	8,100	0.53	0.58U	69.2
TP-13B-H	9.0J	129J	4.0J	74.2J	12,200	0.31	0.62U	11.4
TP-18H	3.1J	31.6J	0.18UJ	9.8J	19.4	0.094B	0.85J	0.18U
TP-19H	7.2J	109J	0.21UJ	16.5J	120	0.22	1.0J	0.21U
Soil Cleanup Objective ²	7.5	300 or BG	10 or BG	50	BG	0.1 or BG	2 or BG	BG
BG-1 ³	3.3	85.4	0.28B	16.7	243	0.31	ND	ND
BG-2 ³	6.2	74.0	0.13B	20.9	87.2	1.4	ND	ND
BG-3 ³	3.1	62.3	0.20B	14.3	95.8	0.14	ND	ND

Notes: ¹Samples collected by AKRF, Inc. personnel on January 27, 1999 and analyzed for TCL VOCs and RCRA Metals by Severn Trent Laboratories, a New York State Department of Health certified CLP laboratory.

²New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).

³BG = Background Sample

U = Analyte was not detected at method reporting limit.

B = Analyte result between instrument detection limit (IDL) and contract required detection limit (CRDL)

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

mg/kg = milligrams per kilogram (ppm)

Soil Table H-6
Soil Analytical Summary - TCLP Lead
Yonkers Downtown Waterfront - Parcel H
TP-13A-H
(mg/l)

Soil Sample ¹	Lead
TP-13A-H (4')	110
TP-13B-H (8')	332
Regulatory Level ²	5.0

Notes: ¹Samples collected by AKRF, Inc. personnel on January 27, 1999 and analyzed for TCLP Lead by Severn Trent Laboratory, Inc. a New York State Department of Health certified CLP laboratory.

²NYSDEC Division of Spills Management Spill Technology and Remediation Series (STARS) - Hazardous Waste Regulatory Levels for Toxicity Characteristic.

mg/l = milligrams per liter

Groundwater Table H-7
Groundwater Analytical Summary - Volatile Organic Compounds
Yonkers Downtown Waterfront
Parcel H
($\mu\text{g/l}$)

Groundwater Sample ¹	Trichloroethene
MW-2H	ND
MW-2HA ²	ND
TP-3H	ND
TP-8H	8.6
TP-9H	1.5
MW-1H	17
Water Quality Standard ³	5

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, and July 24, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State certified CLP laboratory.

²Sample MW-2HA is a duplicate sample of MW-2H.

³NYSDEC division of Technical and Operational Guidance Series (TOGS) 1.1.1. - Ambient Water Quality Standards and Guidance Values.

ND = None detected above the minimum detection level (MDL)

$\mu\text{g/l}$ = micrograms per liter (ppb)

Groundwater Table H-8
Groundwater Analytical Summary - Semivolatile Organic Compounds
Yonkers Downtown Waterfront - Parcel H¹
($\mu\text{g/l}$)

Compound	TP-3H (total)	TP-8H (total)	TP-9H (total)	MW-1H (total)	MW-2H (total)	MW-2HA ² (total)	Water Quality Standard ³	Water Quality Guidance Value ³
Naphthalene	0.3J	ND	ND	ND	ND	ND	10	10
Acenaphthylene	0.6J	ND	ND	ND	ND	ND	NS	NV
Acenaphthene	0.4J	ND	ND	ND	ND	ND	20	20
Fluorene	0.3J	ND	ND	ND	ND	ND	NS	50
Phenanthrene	4.4J	ND	ND	ND	ND	ND	NS	50
Anthracene	1.4J	ND	ND	ND	ND	ND	NS	50
Carbazole	0.6J	ND	ND	ND	ND	ND	NS	NV
Fluoranthene	14J	ND	ND	ND	ND	ND	NS	NV
Pyrene	13J	ND	ND	ND	ND	ND	NS	50
Benzo(a)anthracene	7.9	ND	ND	ND	ND	ND	NS	0.002
Chrysene	8.9J	ND	ND	ND	ND	ND	NS	0.002
bis(2-ethylhexyl)phthalate	ND	3.8J	ND	ND	ND	ND	5	NV
Benzo(b)fluoranthene	10	ND	ND	ND	ND	ND	NS	0.002
Benzo(k)fluoranthene	3.6	ND	ND	ND	ND	ND	NS	0.002
Benzo(a)pyrene	8.1	ND	ND	ND	ND	ND	NS	0.002
Indeno(1,2,3-cd)pyrene	4.8	ND	ND	ND	ND	ND	NS	0.002
Dibenz(a,h)anthracene	1.3	ND	ND	ND	ND	ND	NS	NV
Benzo(g,h,i)perylene	5.0J	ND	ND	ND	ND	ND	NS	NV

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, and July 24, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State Department of Health certified CLP laboratory.

²Sample MW-2HA is a duplicate sample of Sample MW-2H.

³NYSDEC division of Technical and Operational Guidance Series (TOGS) 1.1.1. - Ambient Water Quality Standards and Guidance Values.

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

ND = None detected above the minimum detection level (MDL)

NS = No Standard

NV = No Value

$\mu\text{g/l}$ = micrograms per liter (ppb)

Groundwater Table H-9
Groundwater Analytical Summary - PCBs
Yonkers Downtown Waterfront - Parcel H
($\mu\text{g/l}$)

Groundwater Sample ¹	PCBs
TP-3H	1.54 ²
TP-8H	ND
TP-9H	ND
TP-10AH-GW	ND
TP-12H-GW	ND
TP-13H-GW	ND
MW-1H	ND
MW-2H	ND
MW-2HA ³	ND
Water Quality Standard ⁴	Total PCBs < 0.09

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, July 24, and October 28, 1998 and analyzed for TCL VOCs, SVOCs, PCBs and TAL metals by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.

² This concentration includes 1 $\mu\text{g/l}$ of Arochlor 1262 and 0.54 of Arochlor 1254 (this value is approximate, as it was detected at a concentration less than that of the specified quantitation limit).

³Sample MW-2HA is a duplicate samples of Sample MW-2H.

⁴NYSDEC division of Technical and Operational Guidance Series (TOGS) 1.1.1. - Ambient Water Quality Standards and Guidance Values.

ND = Not Detected

$\mu\text{g/l}$ = micrograms per liter (ppb)

Groundwater Table H-10
Groundwater Analytical Summary -TAL Metals
Yonkers Downtown Waterfront - Parcel H' ($\mu\text{g/l}$)

Metal	TP-3H (total)	TP-8H (total)	TP-9H (total)	TP-10AH-GW (dissolved)	TP-12H-GW (dissolved)	TP-13H-GW (dissolved)	MW-1H (total)	MW-1H (dissolved)	MW-2H (total)	MW-2H (dissolved)	MW-2HA: (total)	MW-2HA: (dissolved)	Water Quality Standard ¹
Aluminum	3,530	3,480	6,810	ND	ND	ND	45,200	ND	38,500	ND	36,700	ND	100
Arsenic	8.8	4.2	6.4	ND	ND	9.5	26.2	ND	24.9	ND	22.3	ND	25
Barium	357	58.2B	146B	563	260	747	339	76.1B	396	62.1B	363	62.0B	1,000
Beryllium	ND	0.34B	0.38B	ND	ND	ND	2.8	ND	1.8B	ND	1.8B	ND	3
Cadmium	1.7B	ND	ND	1.6B	1.3B	2.4B	ND	ND	ND	ND	ND	ND	10
Calcium	171,000	110,000	124,000	168,000	147,000	208,000	166,000	135,000	130,000	133,000	130,000	134,000	NS
Chromium	9.0B	4.2B	22.8	ND	ND	ND	121	ND	71.8	ND	67.8	ND	50
Cobalt	3.9B	2.4B	7.3B	1.5B	13.8B	7.5B	32.6B	ND	23.8B	1.4B	23.2B	ND	5
Copper	233	32.1	41.0	45.5	65.3	32.3	270	4.6B	334	ND	323	ND	200
Iron	7,000	7,950	11,600	97.1	73.0B	ND	116,000	ND	57,800	ND	55,700	ND	300
Lead	267	12.3	58.2	10.5	6.7	2.3B	386	ND	488	ND	491	ND	25
Magnesium	37,400	118,000	219,000	144,000	51,900	209,000	117,000	128,000	75,400	74,400	74,800	75,400	35,000
Manganese	200	164	245	11.8B	52.5	405	2,120	15.7	1,660	359	1,640	366	300
Mercury	2.0	ND	0.43	ND	ND	ND	0.64	ND	1.8	ND	1.8	ND	2
Nickel	15.4B	11.7B	27.6B	10.5B	13.6B	26.5B	63.9	3.3B	55.5	2.4B	114	ND	NS
Potassium	11,200	44,000	79,200	44,800	13,700	70,900	48,100	41,500	23,300	22,600	22,900	22,300	NS
Sodium	96,000	375,000	1,790,000	1,010,000	223,000	1,700,000	806,000	896,000	386,000	412,000	371,000	384,000	20,000
Vanadium	33.8B	9.8B	20.9B	ND	8.9B	ND	126	2.3B	75.2	3.5B	73.5	4.8B	14
Zinc	833	135	116	590	568	946	985J	ND	624J	ND	620J	ND	300

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, July 24, and October 28, 1998 and analyzed for TCL VOCs and SVOCs and TAL metals by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.

²Sample MW-2HA is a duplicate sample of Sample MW-2H.

³NYSDDEC division of Technical and Operational Guidance Series (TOGS) 1.1.1. - Ambient Water Quality Standards and Guidance Values.

B = The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

N = The spiked recovery was not within the control limits during laboratory quality control/quality assurance practices.

ND = Not Detected

NS = No Standard

$\mu\text{g/l}$ = micrograms per liter (ppb)

Groundwater Table H-11
Groundwater Analytical Summary - Turbidity
Yonkers Downtown Waterfront - Parcel H

Groundwater Sample ¹	Turbidity Level (NTU)
MW-1H	1,050
MW-2H	460
MW-2HA	625

Notes: ¹Samples collected by AKRF, Inc. personnel on July 24, 1998 and analyzed for TCL VOCs and SVOCs, TAL metals and Turbidity by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.

NTU = Nephelometric Turbidity Units

PARCEL I

Soil Table I-1
Soil Analytical Summary - Semivolatile Organic Compounds
Yonkers Downtown Waterfront - Parcel I¹
($\mu\text{g/kg}$)

Compound	TP-4H (Parcel I)	SS Parcel I ²	Soil Clean Up Objective ³	BG-1 ⁴	BG-2 ⁴	BG-3 ⁴
4-Methylphenol	10J	ND	90	NA	NA	NA
Naphthalene	360J	50J	13,000	18J	9.7J	20J
2-Methylnaphthalene	260J	36J	36,400	NA	NA	NA
Acenaphthylene	76J	44J	41,000	27J	36J	78J
Acenaphthene	57J	61J	50,000	29J	ND	75J
Dibenzofuran	67J	37J	6,200	NA	NA	NA
Fluorene	73J	66J	50,000	28J	13J	83J
Phenanthrene	710J	580	50,000	310J	95J	1,200
Anthracene	150J	140J	50,000	72J	35J	200J
Carbazole	44J	58J	NS	NA	NA	NA
Fluoranthene	660J	720	50,000	600J	240J	2,600
Pyrene	700J	670	50,000	520J	220J	2,200
Butylbenzylphthalate	ND	180J	50,000	NA	NA	NA
Benzo(a)anthracene	350	370	224 or MDL	290	140	1,200
Chrysene	720J	390	400	370J	180J	1,600
bis(2-Ethylhexyl)phthalate	ND	380	50,000	NA	NA	NA
Benzo(b)fluoranthene	550	440	1,100	450	240	2,000
Benzo(k)fluoranthene	230	170	1,100	170	83	860
Benzo(a)pyrene	290	300	61 or MDL	300	160	1,300
Indeno(1,2,3-cd)pyrene	120	100	3,200	180	87	580
Dibenz(a,h)anthracene	40J	30J	14 or MDL	40J	21J	140
Benzo(g,h,i)perylene	120J	96J	50,000	200J	89J	510J

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15, 1998 and July 24, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State Department of Health certified CLP laboratory.

²SS Parcel-I is the surface soil sample collected from Parcel I.

³New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).

⁴BG = Background Sample

NA = No Standard

NA = Not Analyzed

ND = Not Detected

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

MDL = Minimum Detection Level

$\mu\text{g/kg}$ = micrograms per kilogram (ppb)

Soil Table I-2
Surface Soil Analytical Summary - Pesticides
Yonkers Downtown Waterfront - Parcel I'
(mg/kg)

Compound	SS-I	Soil Cleanup Objectives ²
4,4' - DDT	9.8	2.1
Dieldrin	9.5	0.044

Notes: ¹Sample collected by AKRF, Inc. personnel on July 24, 1998 and analyzed for TCL SVOCs and Pesticides and TAL metals by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.

²New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).

mg/kg = milligrams per kilogram (ppm)

Soil Table I-3
Soil Analytical Summary -TAL Metals
Yonkers Downtown Waterfront - Parcel I¹ (mg/kg)

Metal	TP-4H (parcel I)	SS Parcel I²	Soil Cleanup Objective³	BG-1⁴	BG-2⁴	BG-3⁴
Aluminum	2,280	4,760	BG	8,450	8,970	6,020
Arsenic	14.5	1.9	7.5	3.3	6.2	3.1
Barium	111	40.1	300 or BG	85.4	74.0	62.3
Beryllium	0.59	0.13B	0.14	0.49	0.45B	0.35B
Cadmium	ND	ND	10 or BG	0.28B	0.13B	0.20B
Calcium	4,940	6,250J	BG	2,430	3,540	3,310
Chromium	7.6	14.7	50 or BG	16.7	20.9	14.3
Cobalt	2.9B	4.7B	30 or BG	ND	ND	ND
Copper	16.4	23.1	25 or BG	25.6	20.2	22.6
Iron	22,000	11,300	2,000 or BG	14,300	13,700	12,300
Lead	27.1	70.0J	BG	243	87.2	95.8
Magnesium	1,880	4,940J	BG	2,800	3,440	2,630
Manganese	102	175	BG	494	292	338
Mercury	0.22	0.04	0.1 or BG	0.31	1.4	0.14
Nickel	7.6B	11.4	13 or BG	13.7	15.4	11.5
Potassium	850B	1,200	4,000 or BG	573B	1,550	795B
Sodium	295B	122B	3,000 or BG	ND	ND	ND
Vanadium	21.7	21.1	150 or BG	20.8	24.3	17.0
Zinc	27.6	55.6J	20 or BG	165	68.8	107

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and July 30, 1998 and analyzed for TCL VOCs and SVOCs and TAL metals by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.
²SS Parcel- I is the surface soil sample collected from Parcel I.
³New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).
⁴BG = Background Sample.
B = The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.
ND = Not Detected.
N = The spiked recovery was not within the control limits during laboratory quality control/quality assurance practices.
mg/kg = milligrams per kilogram (ppm)

Groundwater Table I-4
Groundwater Analytical Summary - Semivolatile Organic Compounds (unfiltered)
Yonkers Downtown Waterfront - Parcel I¹
($\mu\text{g/l}$)

Compound	TP-4H (Parcel I)	MW-1I	MW-2I	Water Quality Standard ²	Water Quality Guidance Value ²
Phenanthrene	0.5J	ND	ND	NS	50
Fluoranthene	0.5J	ND	ND	NS	NV
Pyrene	0.4J	ND	ND	NS	50
Benz(a)anthracene	0.6J	ND	ND	NS	0.002
Chrysene	0.3J	ND	ND	NS	0.002
Benzo(b)fluoranthene	0.3J	ND	ND	NS	0.002
Benzo(a)pyrene	0.2J	ND	ND	NS	0.002

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, 1998 and July 24, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State Department of Health certified CLP laboratory.

²NYSDEC division of Technical and Operational Guidance Series (TOGS) 1.1.1. - Ambient Water Quality Standards and Guidance Values.

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

ND = None detected above the minimum detection level (MDL)

NS = No Standard

$\mu\text{g/l}$ = micrograms per liter

Groundwater Table I-5
Groundwater Analytical Summary -TAL Metals
Yonkers Downtown Waterfront - Parcel I'
($\mu\text{g/l}$)

Metal	TP-4H ² (total)	MW-1I (total)	MW-1I (dissolved)	MW-2I (total)	MW-2I (dissolved)	Water Quality Standard ³
Aluminum	3,330	29,500	ND	18,900	ND	100
Arsenic	12.6	96.6	ND	28.1	ND	25
Barium	156B	612	44.8B	125B	22.1B	1,000
Beryllium	0.23B	2.5	ND	1.3B	ND	3
Calcium	135,000	116,000	109,000	93,600	97,100	NS
Chromium	7.4B	83.0	ND	40.9	ND	50
Cobalt	7.1B	25.9B	1.6B	14.7B	ND	5
Copper	21.1B	250	ND	63.7	ND	200
Iron	18,900	156,000	8,450	40,100	ND	300
Lead	49.5	377	ND	90.2	ND	25
Magnesium	24,600	45,100	39,500	37,400	36,500	35,000
Manganese	164	1,420	775	1,120	617	300
Mercury	0.23	5.2	ND	2.8	ND	2
Nickel	22.7B	67.2	8.4B	33.7B	ND	NS
Potassium	11,000	29,700	26,200	10,800	9,760	NS
Selenium	ND	5.7	ND	5.2	ND	10
Sodium	71,700	202,000	208,000	79,100	96,100	20,000
Vanadium	18.2B	102	7.5B	46.0B	2.8B	14
Zinc	52.3	1,290J	ND	160J	ND	300

Notes: ¹Samples collected by AKRF, Inc. personnel on June 15 and 16, and July 24, 1998 and analyzed for TCL VOCs and SVOCs and TAL metals by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.

² Sample TP-4H is from Parcel I.

³NYSDEC Division of Technical and Operational Guidance Series (TOGS) 1.1.1 - Ambient Water Quality Standards and Guidance Values.

B = The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

ND = Not Detected

NS = No Standard

$\mu\text{g/l}$ = micrograms per liter

Groundwater Table I-6
Groundwater Analytical Summary - Turbidity
Yonkers Downtown Waterfront - Parcel I

Groundwater Sample ¹	Turbidity (NTU)
MW-1I	875
MW-2I	450

Notes: ¹Samples collected by AKRF, Inc. personnel on July 24, 1998 and analyzed for TCL VOCs and SVOCs, TAL metals and Turbidity by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.

NTU = Nephelometric Turbidity Units

PARCEL C

Soil Table C-1
Soil Analytical Summary - Volatile Organic Compounds
Yonkers Downtown Waterfront
Parcel C'
($\mu\text{g/kg}$)

Compound	B-1C (S-3)	B-5C (S-1)	B-6C (S-1)	B-7C (S-4)	B-8C (S-1)	MW-4C (S-3)	Soil Cleanup Objective ²
Acetone	65J	21J	ND	34J	46J	60J	200
Carbon Disulfide	1.7J	1.0J	ND	ND	ND	2.2J	2,700
2-Butanone	ND	ND	ND	ND	7.4J	ND	300
Trichloroethene	ND	ND	ND	ND	ND	1.0J	700
Benzene	1.2J	0.9J	ND	0.6J	ND	ND	60
Tetrachloroethene	ND	ND	ND	ND	ND	0.8J	1,400
Toluene	1.0J	0.8J	ND	0.7J	0.7J	1.5J	1,500
Ethylbenzene	ND	0.5J	ND	ND	ND	0.9J	5,500
Total Xylenes	1.5J	0.8J	ND	ND	ND	6.0J	1,200

Notes: ¹Samples collected by AKRF, Inc. personnel on October 29 and 30, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State certified CLP laboratory.

²New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup objectives and Cleanup Levels (HWR-92-4046).

R = Reported value is unusable and rejected due to variance from quality control limits.

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

ND = None detected above the minimum detection level (MDL)

$\mu\text{g/kg}$ = micrograms per kilograms (ppb)

Soil Table C-2
Soil Analytical Summary - Semivolatile Organic Compounds
Yonkers Downtown Waterfront - Parcel C'
($\mu\text{g/kg}$)

Compound	B-1C (S-3)	B-5C (S-1)	B-6C (S-1)	B-7C (S-4)	B-8C (S-1)	MW-4C (S-3)	Soil Clean Up Objective ²	BG-1 ³	BG-2 ³	BG-3 ³
Phenol	14J	ND	ND	ND	ND	ND	30	NA	NA	NA
4-Methylphenol	ND	ND	ND	180J	ND	ND	900	NA	NA	NA
Napthalene	140J	ND	ND	2,200J	ND	33J	13,000	18J	9.7J	20J
2-Methylnaphthalene	280J	33J	ND	2,700J	ND	120J	100	N/A	N/A	N/A
Acenaphthylene	180J	23J	ND	400J	ND	24J	50,000	29J	ND	75J
Acenaphthene	240J	19J	310J	1,100J	ND	25J	41,000	27J	36J	78J
Dibenzofuran	140J	ND	ND	840J	ND	24J	6,200	N/A	N/A	N/A
Flourene	280J	24J	ND	1,400J	ND	30J	50,000	28J	13J	75J
Phenanthrene	2,100J	200J	100J	10,000	19J	220J	50,000	310J	95J	1,200
Anthracene	510J	56J	ND	2,700J	ND	47J	50,000	72J	35J	200J
Carbozole	170J	ND	ND	880J	ND	17J	NS	NA	NA	NA
Fluoranthene	2,800J	390J	130J	11,000	13J	250J	50,000	600J	240J	2,600
Pyrene	2,700J	430J	220J	10,000	10J	200J	50,000	520J	220J	2,200
Benzo(a)anthracene	1,200J	170	ND	6,100	11J	120	224 or MDL	290	140	1,200
Chrysene	1,400J	200J	ND	7,500J	ND	150J	400	370J	180J	1,600
bis(2-Ethylhexyl)phthalate	130J	340J	ND	ND	500	280J	50,000	NA	NA	NA
Benzo(b)fluoranthene	1,500J	280J	73J	6,800	ND	140	1,100	450	240	2,000
Benzo(k)fluoranthene	590J	90J	ND	2,400	ND	56	1,100	170	83	860
Benzo(a)pyrene	1,200J	180J	66J	5,300	ND	110	61 or MDL	300	160	1,300
Indeno(1,2,3-cd)pyrene	550J	75J	ND	3,100	ND	63	3,200	180	87	580
Dibenz(a,h)anthracene	130J	ND	ND	940	ND	24J	14 or MDL	40J	21J	140
Benzo(g,h,i)perylene	480J	84J	43J	3,200J	ND	71J	50,000	200J	89J	510J

Notes: ¹Samples collected by AKRF, Inc. personnel on October 29 and 30, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State Department of Health certified CLP laboratory.

²New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).

³BG = Background Sample

NA = Not Analyzed

ND = Not Detected

NS = No Standard

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

$\mu\text{g/kg}$ = micrograms per kilogram (ppb)

Soil Table C-3
Soil Analytical Summary - Pesticides
Yonkers Downtown Waterfront - Parcel C'
($\mu\text{g}/\text{kg}$)

Compound	B-5C (S-1)	B-6C (S-1)	B-7C (S-4)	B-8C (S-1)	Soil Cleanup Objective ²
Chlordane	210	190	ND	ND	540

Notes: ¹Samples collected by AKRF, Inc. personnel on October 29 and 30, 1998 and analyzed for TCL VOCs and SVOCs, and Pesticides and TAL metals by Envirotech Research, Inc., a New York State Department of Health certified CLP laboratory.

²New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).

ND = Not Detected

$\mu\text{g}/\text{kg}$ = micrograms per kilogram (ppb)

Soil Table C-4
Soil Analytical Summary -TAL Metals
Yonkers Downtown Waterfront - Parcel C¹ (mg/kg)

Metal	B-1C (S-3)	B-5C (S-1)	B-6C (S-1)	B-7C (S-4)	B-8C (S-1)	MW-4C (S-3)	Soil Cleanup Objective ²	BG-1 ¹	BG-2 ²	BG-3 ³
Aluminum	6,830	7,050	6,810	2,790	8,030	8,940	BG	8,450	8,970	6,020
Antimony	1.8J	ND	ND	ND	ND	ND	30 or BG	ND	ND	ND
Arsenic	6.7J	1.8	1.3	6.5J	1.3	2.6J	7.5	3.3	6.2	3.1
Barium	123	38.7B	15.4B	306	36.2B	63.7	300 or BG	85.4	74.0	62.3
Beryllium	0.34B	0.23B	0.18B	0.29B	0.34B	0.33B	0.14	0.49	0.45B	0.35B
Cadmium	0.41B	ND	ND	0.72B	ND	ND	10 or BG	0.28B	0.13B	0.20B
Calcium	25,800J	78,800	40,900	4,050	1,340	5,720	BG	2,430	3,540	3,310
Chromium	23.7	10.5	5.4	15.0J	12.8	20.8	50 or BG	16.7	20.9	14.3
Cobalt	6.5B	7.3B	6.6B	5.7B	5.5B	9.2B	30 or BG	ND	ND	ND
Copper	393	28.0	39.9	87.6	15.0	44.5	25 or BG	25.6	20.2	22.6
Iron	19,800	20,300	18,800	17,400	12,500	14,700	2,000 or BG	14,300	13,700	12,300
Lead	468	74.4	11.3	998	36.7	27.7	BG	243	87.2	95.8
Magnesium	5,930J	29,100	18,400	1,780	2,870	6,310	BG	2,800	3,440	2,630
Manganese	227	285	212	111	230	296	BG	494	292	338
Mercury	0.61	0.03B	ND	1.6	0.05	0.11	0.1 or BG	0.31	1.4	0.14
Nickel	16.9	13.5J	8.1J	15.0	13.8J	28.4J	13 or BG	13.7	15.4	11.5
Potassium	901J	712J	279B	215B	522J	1,500J	4,000 or BG	573B	1,550	795B
Selenium	1.2	ND	ND	ND	ND	ND	2 or BG	ND	ND	ND
Sodium	339J	690B	1,150	276B	425B	635B	3,000 or BG	ND	ND	ND
Vanadium	29.3	41.4	41.3	15.5	17.5	26.2	150 or BG	20.8	24.3	17.0
Zinc	253	50.3J	28.4J	751J	36.1J	48.6J	20 or BG	165	68.8	107

Notes: ¹Samples collected by AKRF, Inc. personnel on October 29 and 30, 1998 and analyzed for TCL VOCs and SVOCs and TAL metals by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.
²New York State Department of Environmental Conservation Division of Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels (HWR-94-4046).
³BG = Background Sample
B = The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.
J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.
mg/kg = milligrams per kilogram (ppm)

Groundwater Table C-5
Groundwater Analytical Summary - Volatile Organic Compounds
Yonkers Downtown Waterfront
Parcel C
($\mu\text{g/l}$)

Groundwater Sample ¹	Methylene Chloride ²	cis-1,2-Dichloroethene
MW-2C	220J	ND
MW-4C	23J	1.1J
MW-4AC ³	260J	ND
Water Quality Standard ⁴	5	5

Notes: ¹Samples collected by AKRF, Inc. personnel on November 9, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State certified CLP laboratory.

²Methylene Chloride is a common laboratory contaminant, however it was not detected in the trip blank or the field blank samples.

³Sample 4-AC is a duplicate to sample 4-C.

⁴NYSDEC division of Technical and Operational Guidance Series (TOGS) 1.1.1. - Ambient Water Quality Standards and Guidance Values.

ND = None detected above the minimum detection level (MDL).

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

$\mu\text{g/l}$ = micrograms per liter (ppb)

Groundwater Table C-6
Groundwater Analytical Summary - Semivolatile Organic Compounds
Yonkers Downtown Waterfront - Parcel C'
($\mu\text{g/l}$)

Compound	MW-2C	MW-4C	MW-4AC ²	Water Quality Standard ³	Water Quality Guidance Value ³
Phenol	2.4J	ND	ND	1	NV
4-Methylphenol	0.4J	ND	ND	1	NV
bis(2-Ethylhexyl) phthalate	3.2J	ND	ND	50	NV

Notes: ¹Samples collected by AKRF, Inc. personnel on November 9, 1998 and analyzed for TCL VOCs and SVOCs, and TAL metals by Envirotech Research, Inc., a New York State Department of Health certified CLP laboratory.

²Sample 4-AC is a duplicate sample to sample 4-C.

³ NYSDEC division of Technical and Operational Guidance Series (TOGS) 1.1.1. - Ambient Water Quality Standards and Guidance Values.

ND = None detected above the minimum detection level (MDL).

NV = No Value.

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

$\mu\text{g/l}$ = micrograms per liter (ppb)

Groundwater Table C-7
Groundwater Analytical Summary -TAL Metals
Yonkers Downtown Waterfront - Parcel C'
($\mu\text{g/l}$)

Metal	MW-2C (dissolved)	MW-4C (dissolved)	MW-4AC ² (dissolved)	Water Quality Standard ³
Aluminum	ND	305B	278B	100
Arsenic	ND	9.0	10.4	25
Barium	592	446	442	1,000
Calcium	187,000	267,000	261,000	NS
Cobalt	1.9B	ND	ND	5
Iron	333	3,650	3,590	300
Lead	ND	5.1B	5.3B	25
Magnesium	18,900	156,000	153,000	35,000
Manganese	3,180	4,870	4,740	300
Nickel	2.9B	ND	ND	NS
Potassium	18,800	65,500	59,200	NS
Sodium	89,800	1,330,000	1,290,000	20,000
Zinc	276	107	90.1	300

Notes: ¹Samples collected by AKRF, Inc. personnel on November 9, 1998 and analyzed for TCL VOCs and SVOCs and dissolved TAL metals by Envirotech Research, Inc. a New York State Department of Health certified CLP laboratory.

²Sample 4-AC is a duplicate sample to sample 4-C.

³NYSDEC division of Technical and Operational Guidance Series (TOGS) 1.1.1. - Ambient Water Quality Standards and Guidance Values.

B = The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

ND = Not Detected

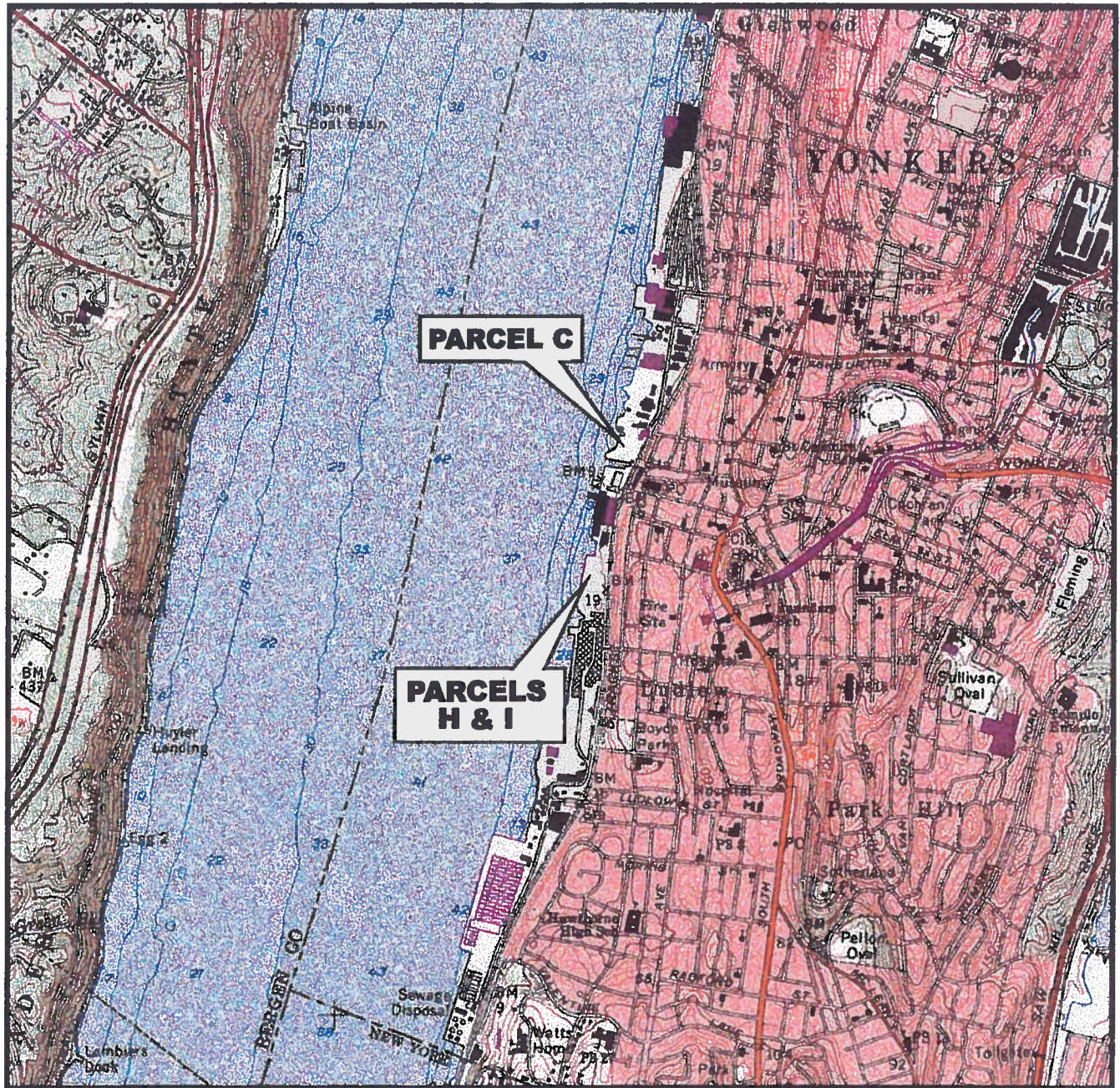
NS = No Standard

$\mu\text{g/l}$ = micrograms per liter (ppb)

FIGURES

FIGURES

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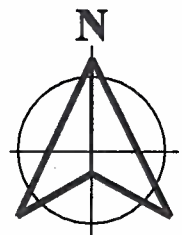


QUADRANGLE LOCATION



SOURCE:

USGS TOPOGRAPHIC MAP - YONKERS, N.Y.-N.J.
QUADRANGLE - DATED 1966, PHOTOREVISED 1979



YONKERS WATERFRONT DEVELOPMENT
YONKERS, NEW YORK

SITE LOCATION MAP

AKRF, Inc.

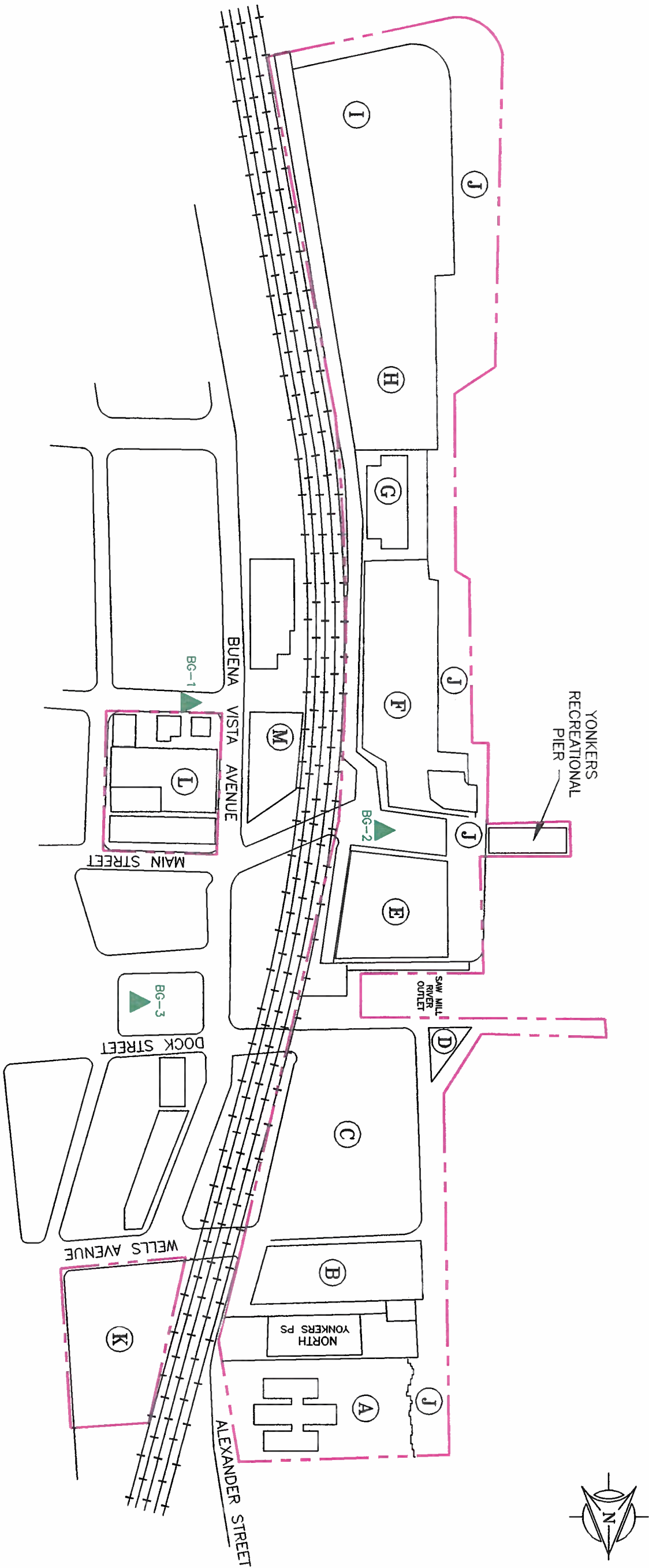
Environmental Consultants
34 South Broadway White Plains, N.Y. 10601

DATE
3/18/99

PROJECT No.
70004

FIGURE No.

1



Legend:

- STUDY SITE BOUNDARY
- RAILROAD STATION
- ▲ BG-1 BACKGROUND SOIL SAMPLE COLLECTED ON JUNE 18, 1998.
- ① BECZAK ENVIRONMENTAL CENTER
- ② POLICE ATHLETIC LEAGUE
- ③ CITY OF YONKERS PARKS DEPT.
- ④ YONKERS CONTRACTING CO.
- ⑤ STORAGE LOT
- ⑥ YONKERS PARKING AUTHORITY LOT
- ⑦ UNDEVELOPED LAND
- ⑧ SCRIMSHAW PARKING LOT
- ⑨ SCRIMSHAW HOUSE CONDOMINIUM
- ⑩ SOUTHERNMOST VACANT LOT
- ⑪ 2-2010 PROPOSED PARKING LOT
- ⑫ 1-513 PROPOSED PARKING LOT

YONKERS WATERFRONT DEVELOPMENT
YONKERS, NEW YORK

SITE PLAN

AKRF, Inc.

Environmental Consultants
34 South Broadway White Plains, N.Y. 10601

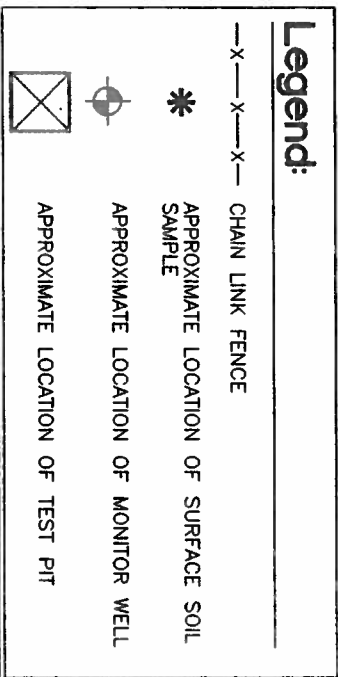
DATE
3/18/99

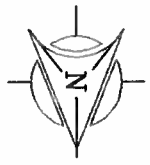
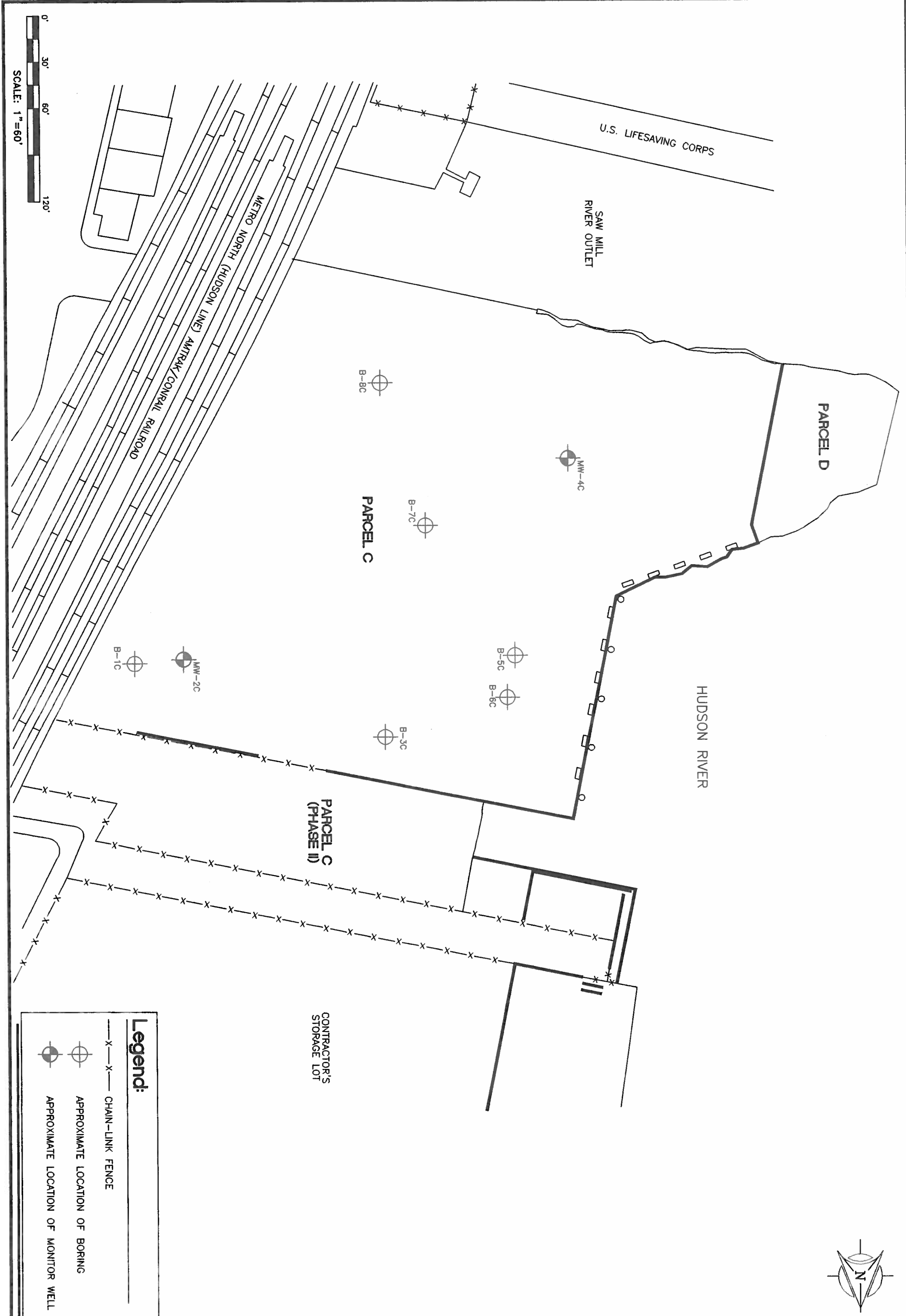
SCALE
N.T.S.

PROJECT No.
70004

FIGURE No.

2

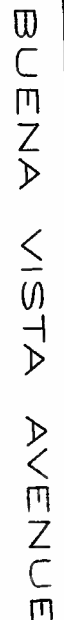




Legend:

- X—X— CHAIN-LINK FENCE
- ⊕ APPROXIMATE LOCATION OF BORING
- ⊙ APPROXIMATE LOCATION OF MONITOR WELL

3C	FIGURE No.	PROJECT No. 70004	SCALE 1"=60'	DATE 3/18/99	YONKERS WATERFRONT DEVELOPMENT YONKERS, NEW YORK	AKRF, Inc. Environmental Consultants 34 South Broadway White Plains, N.Y. 10601
					MONITOR WELL AND BORING LOCATIONS	



Legend:

—X—X—X— CHAIN LINK FENCE

X APPROXIMATE LOCATION OF SOIL GAS SAMPLING POINT (ppm)

INFERRED TOTAL VOC CONCENTRATION
CONTOUR (ppm)

YONKERS WATERFRONT DEVELOPMENT

YONKERS, NEW YORK

PARCEL H AND I SOIL GAS SURVEY

AKRF, Inc.

Environmental Consultants
34 South Broadway White Plains, N.Y. 10601

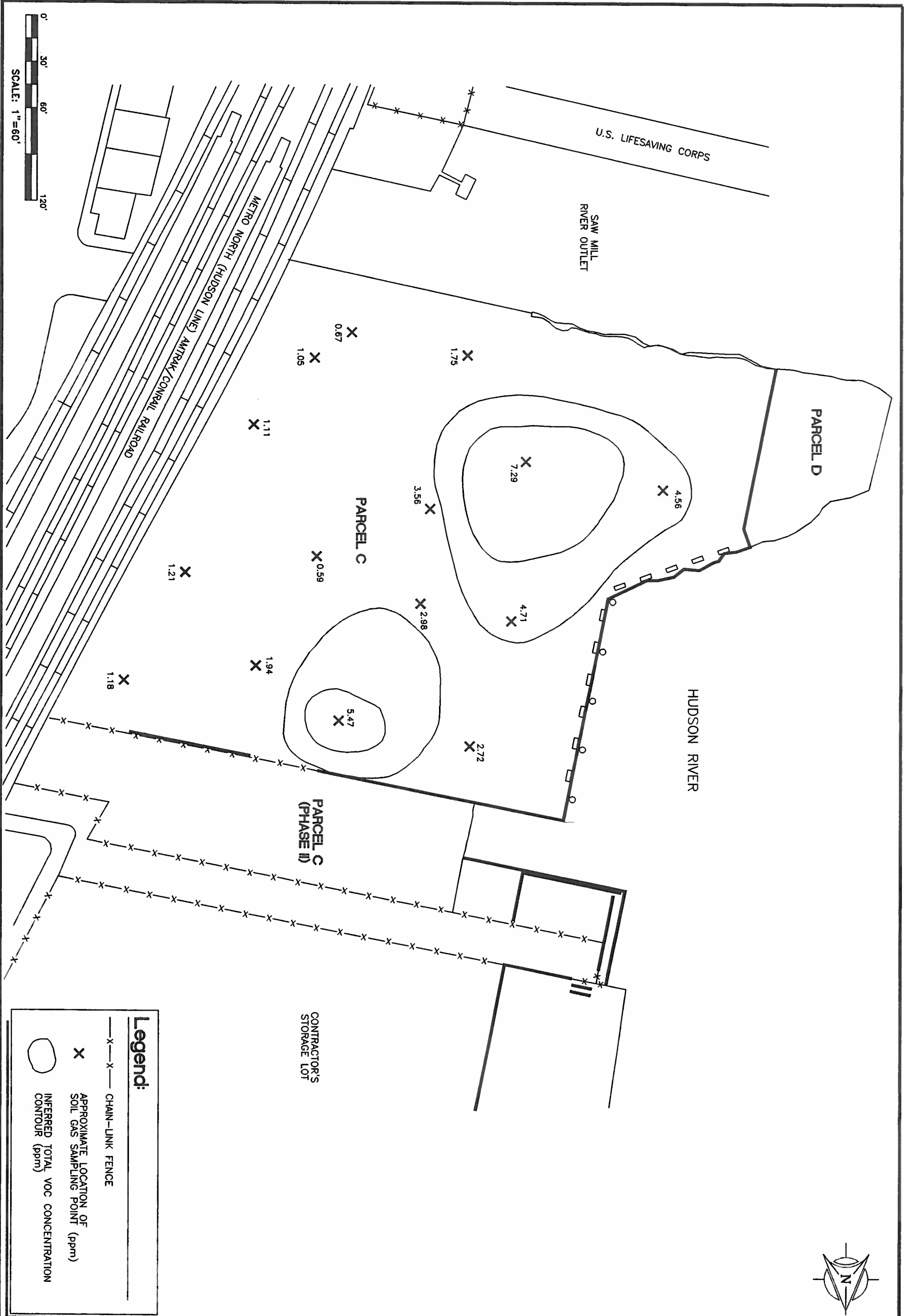
4H&I

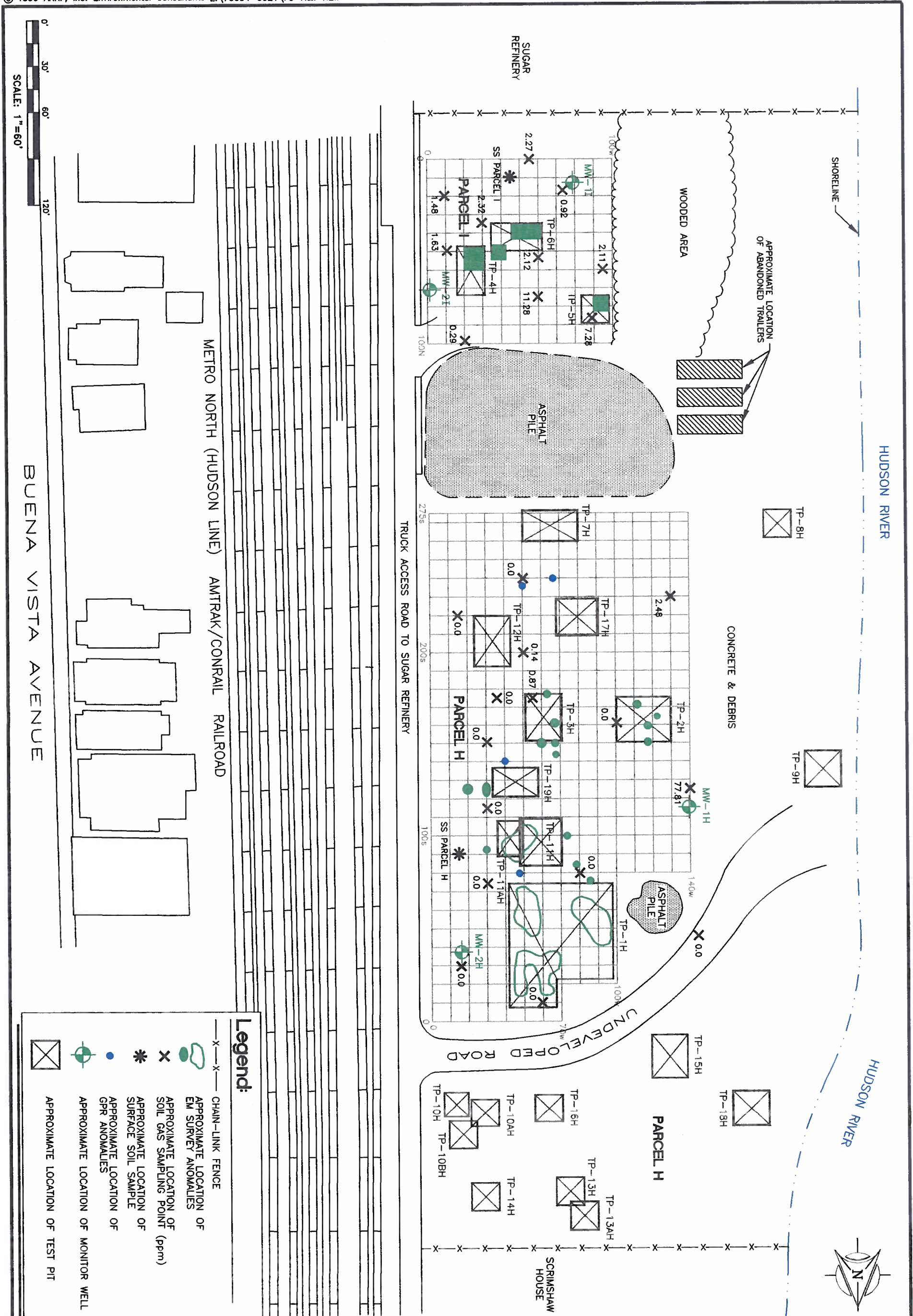
FIGURE No.

PROJECT No
70004

SCALE
1"=60'

DATE
3/18/99





AKRF, Inc.
Environmental Consultants
34 South Broadway White Plains, N.Y. 10601

YONKERS WATERFRONT DEVELOPMENT
YONKERS, NEW YORK
PARCEL H AND I SITE PLAN

DATE
3/18/99
SCALE
1"=60'
PROJECT No.
70004
FIGURE No.
5H&I



YONKERS WATERFRONT DEVELOPMENT
YONKERS, NEW YORK

SITE PLAN

AKRF, Inc.

Environmental Consultants
34 South Broadway White Plains, N.Y. 10601

DATE
3/18/99

SCALE
1"=60'

PROJECT NO.
70004

FIGURE NO.

5C

APPENDIX A

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION



Monitor well MW-2H located on the northeastern corner of Parcel H.



Excavation of steel I-beams from test pit TP-1H on Parcel H.



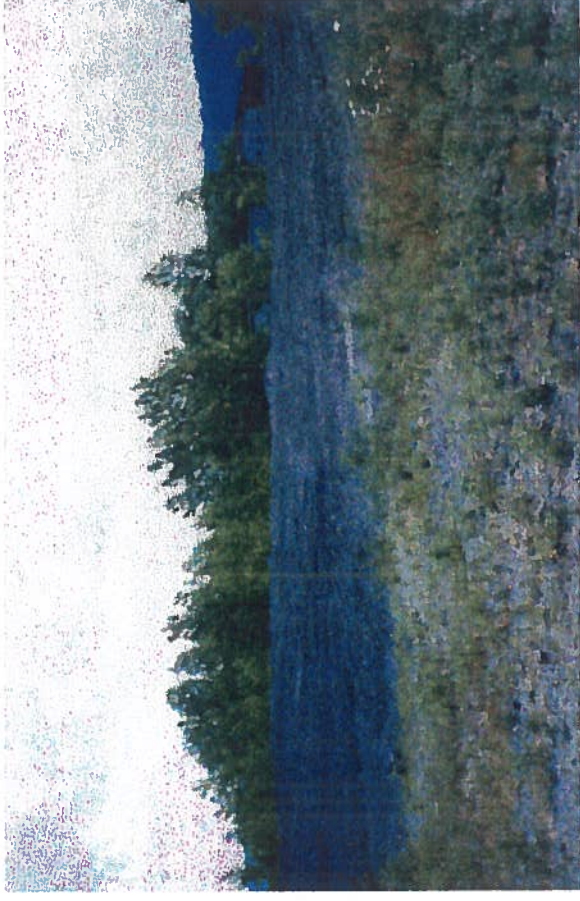
Piping excavated from test Pit TP-1H.



Plastic wire casings in fill materials excavated from test pit TP-10H.



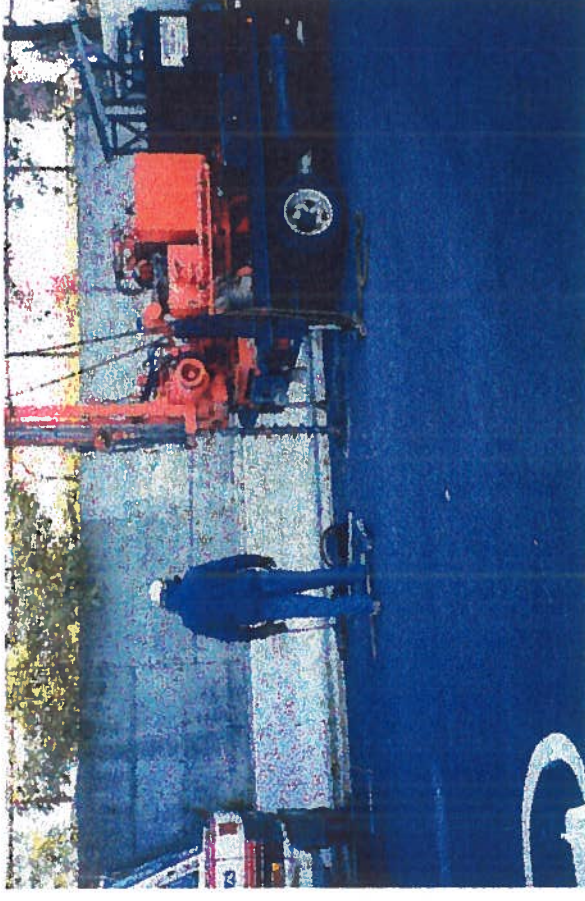
Parcel I facing south; the Jack Frost sugar refinery, southern site abutter, is located in the background.



Asphalt pile located between Parcels H and I, facing southwest.



Monitor well MW-2I located on the northeastern corner of Parcel I.



Boring B-3C located on the north central portion of Parcel C.

APPENDIX B

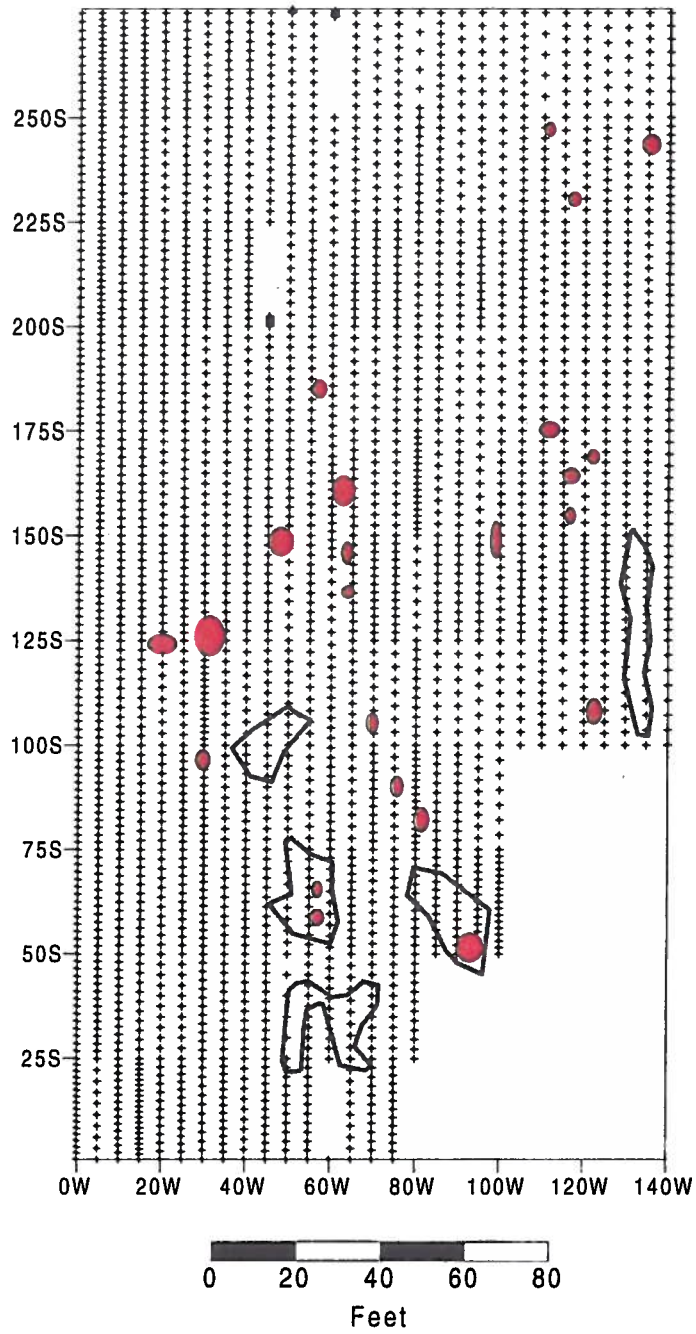
APPENDIX B

ELECTROMAGNETIC SURVEY RESULTS

PARCEL H

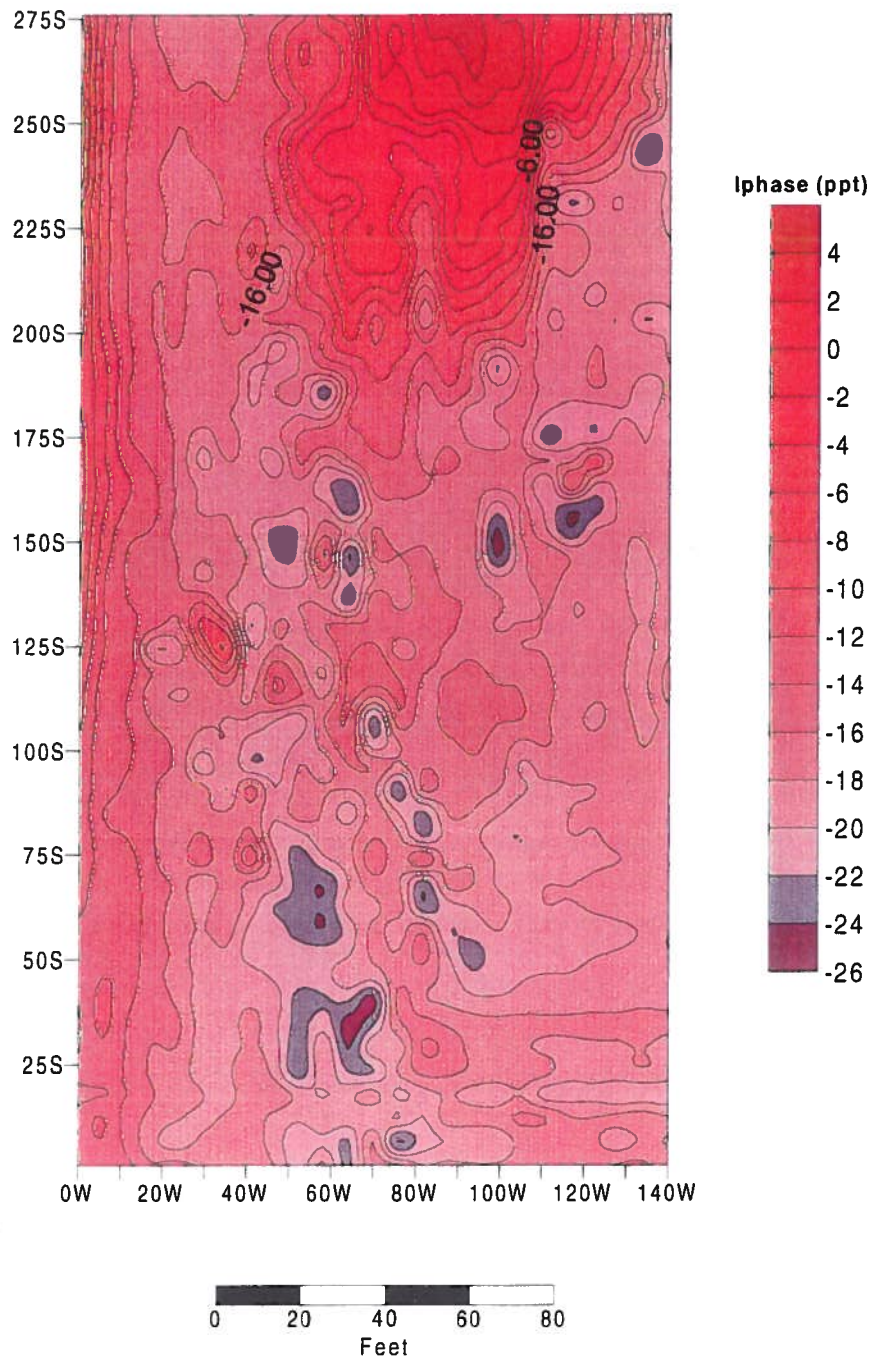
**YONKERS WATER FRONT
ELECTROMAGNETIC SURVEY**

**Parcel H
Map of Detected Anomalies**



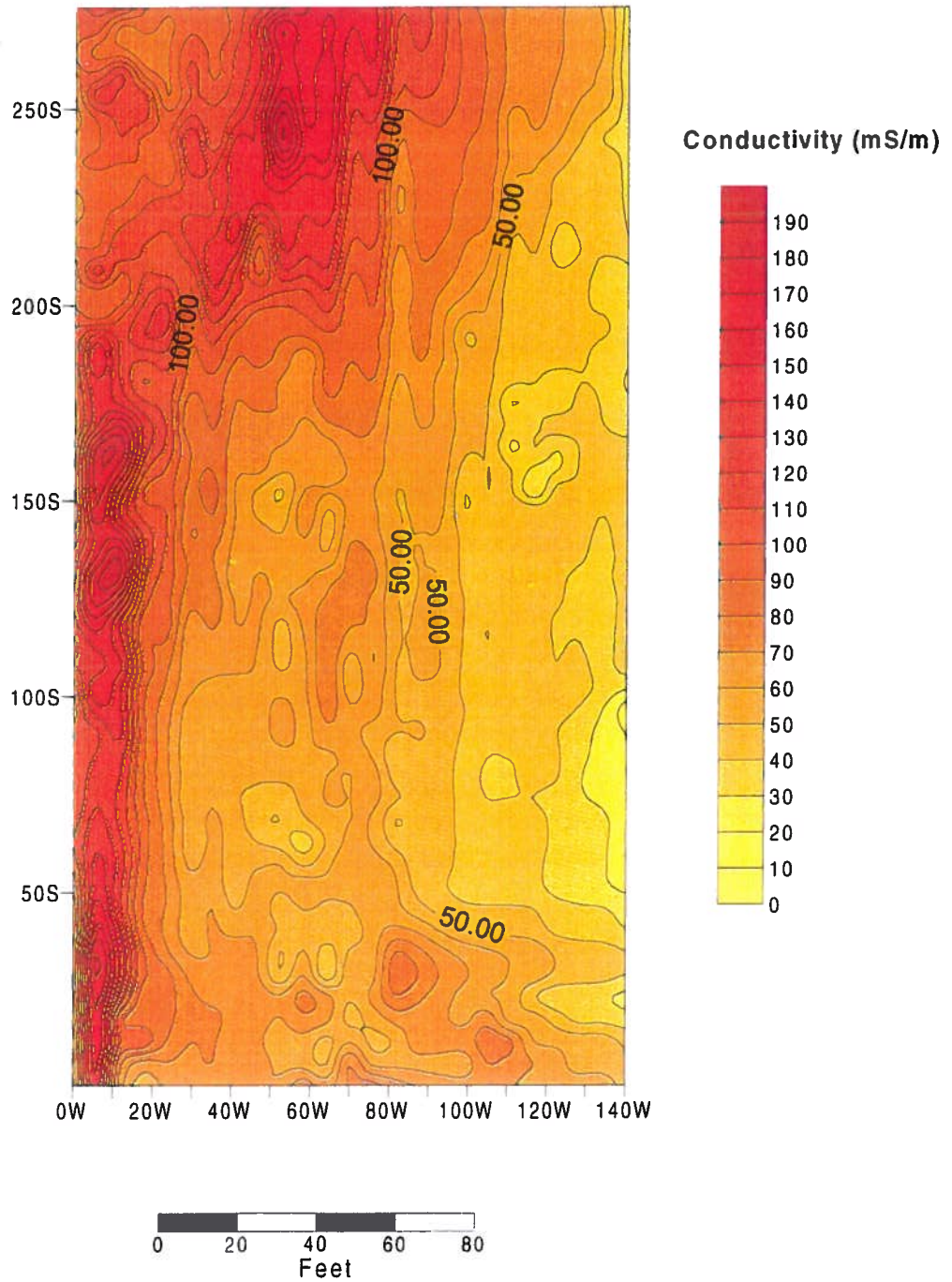
**YONKERS WATER FRONT
ELECTROMAGNETIC SURVEY**

**Parcel H
Inphase Response**



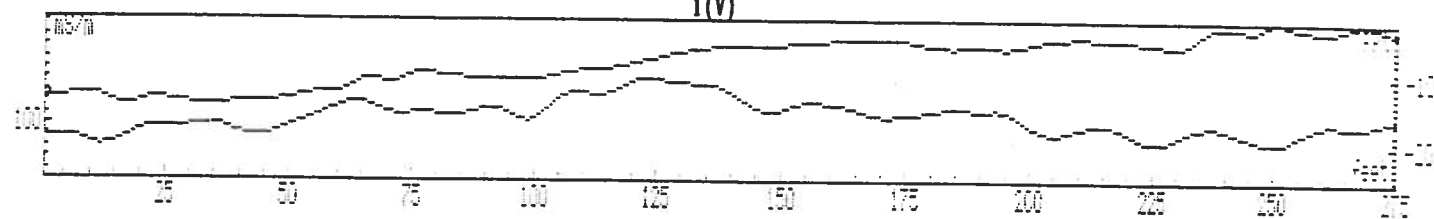
YONKERS WATER FRONT ELECTROMAGNETIC SURVEY

Parcel H
Quad-phase Component

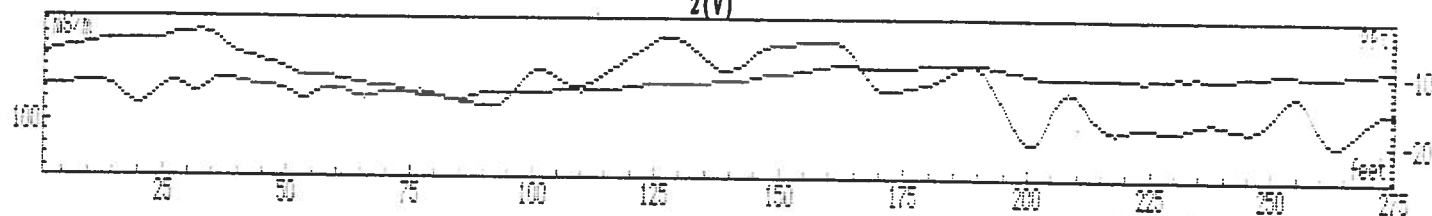


YONKERS WATER FRONT ELECTROMANETIC SURVEY "Parcel H"

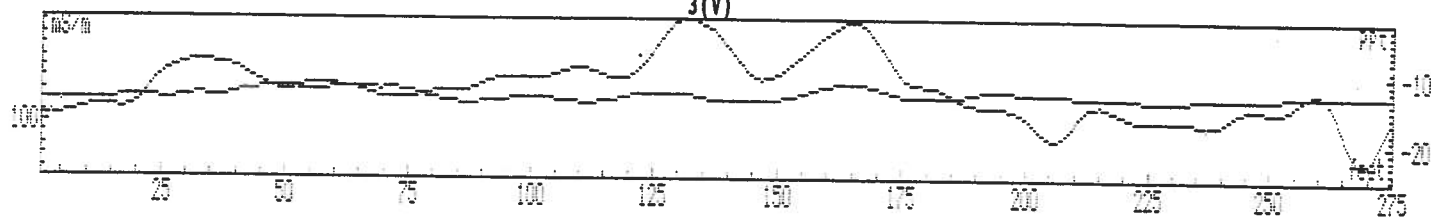
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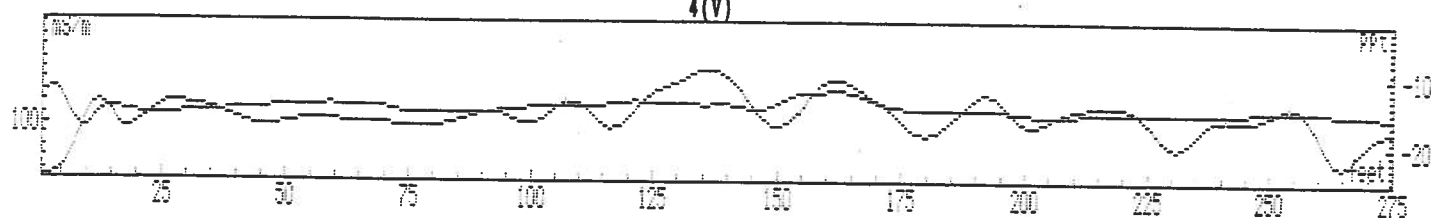
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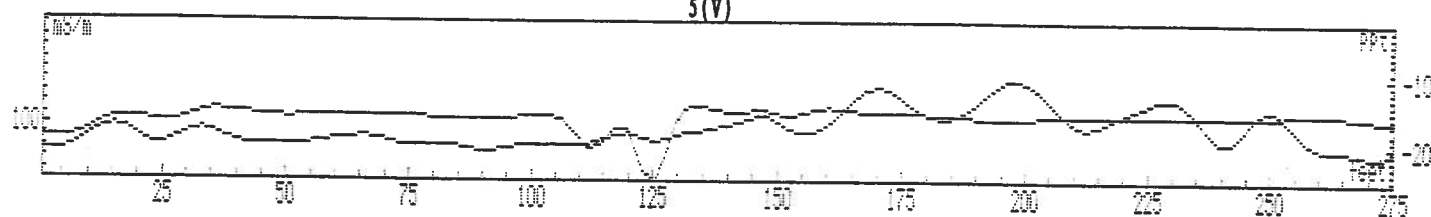
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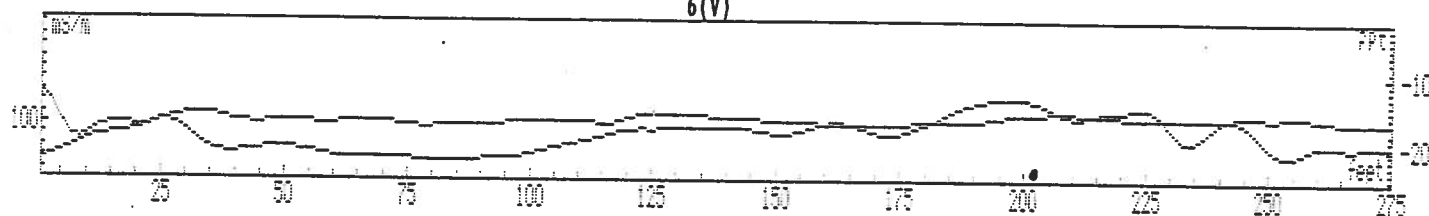
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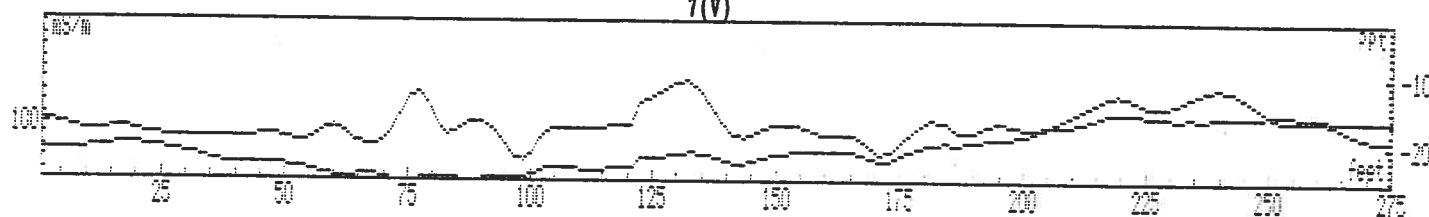
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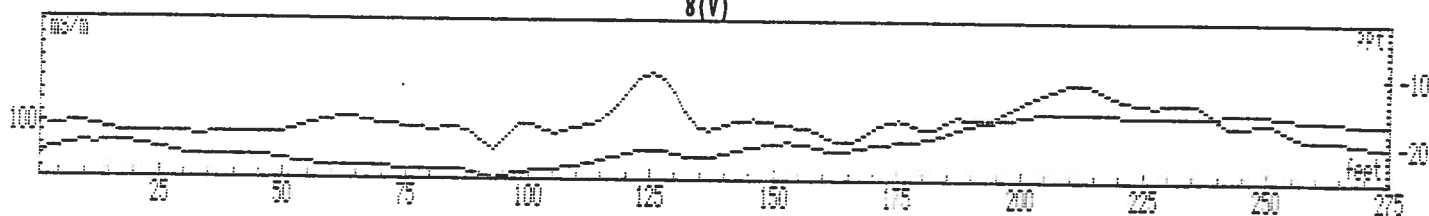
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7(V)

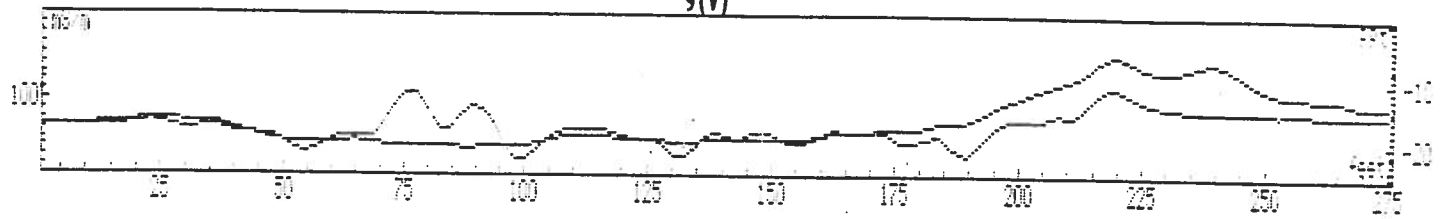


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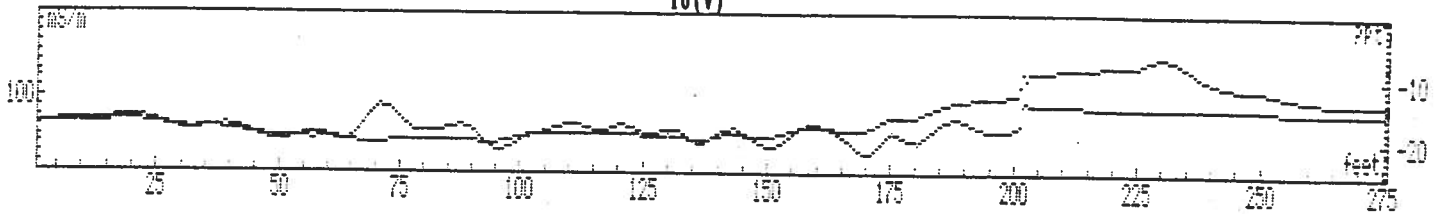


YONKERS WATER FRONT ELECTROMANETIC SURVEY "Parcel H"

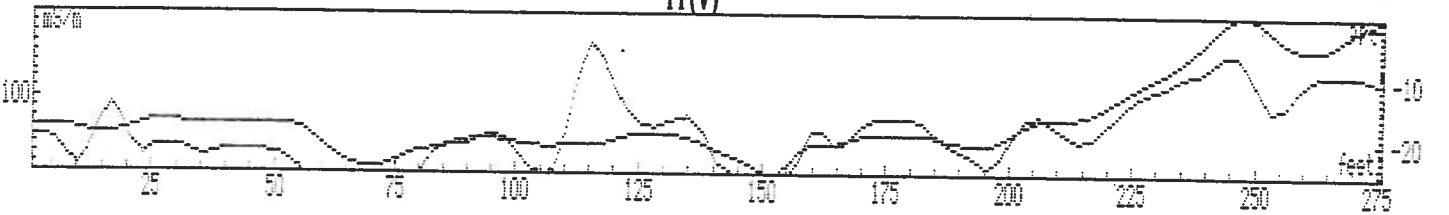
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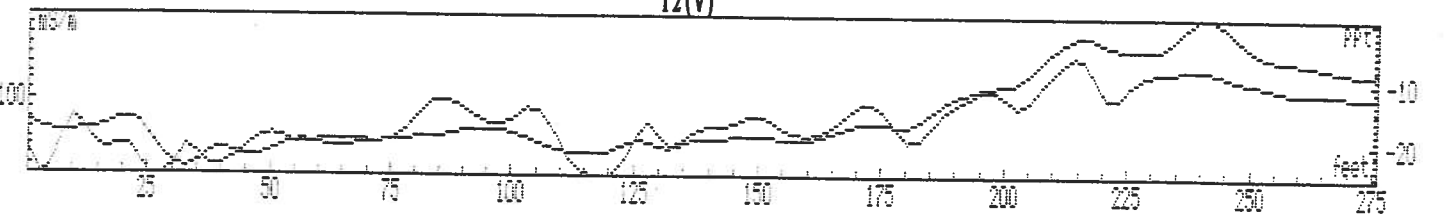
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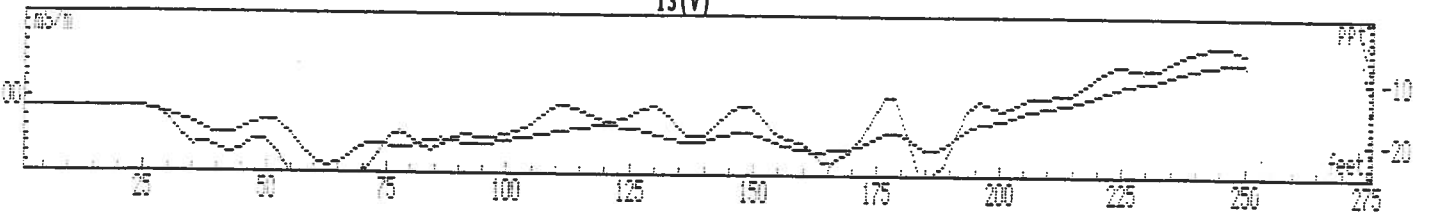
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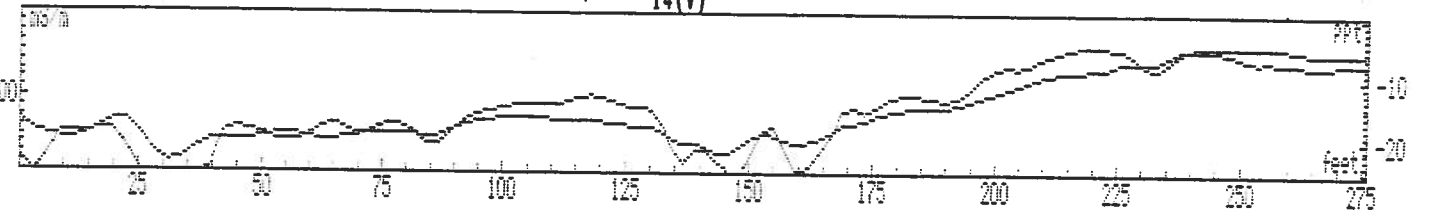
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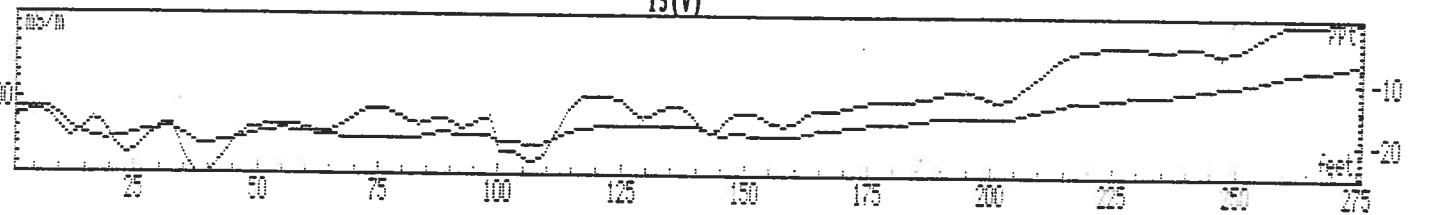
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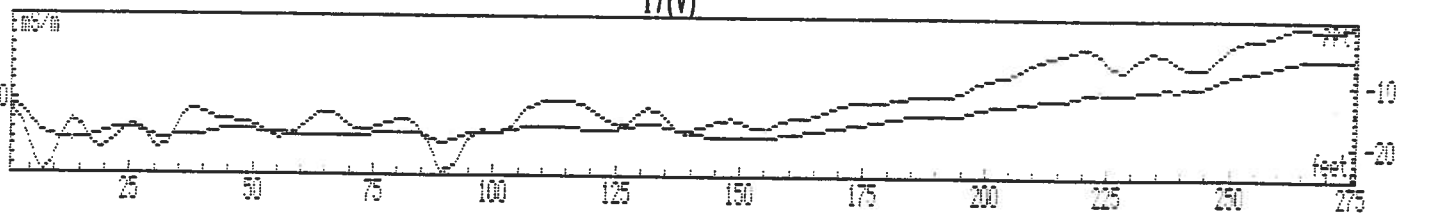
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15(V)

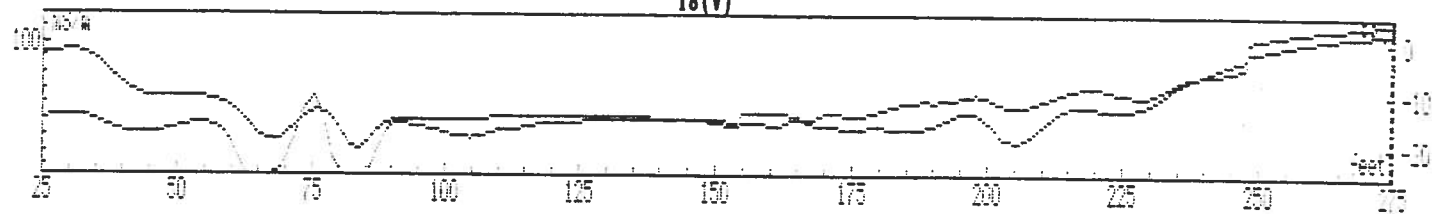


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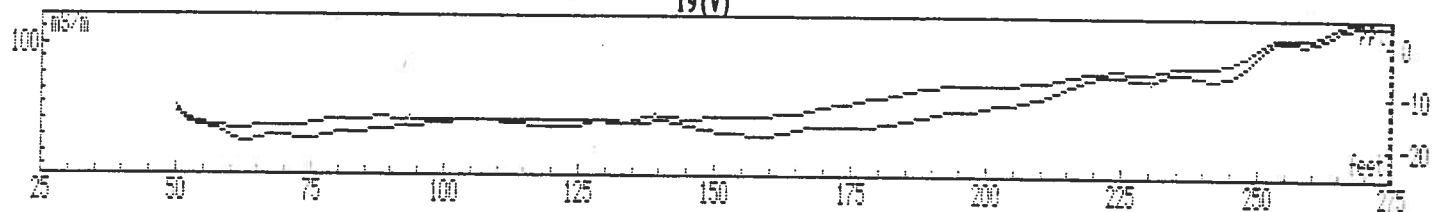


YONKERS WATER FRONT ELECTROMANETIC SURVEY "Parcel H"

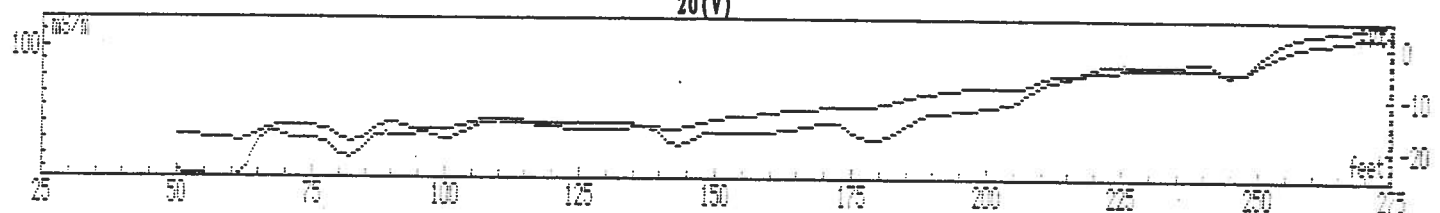
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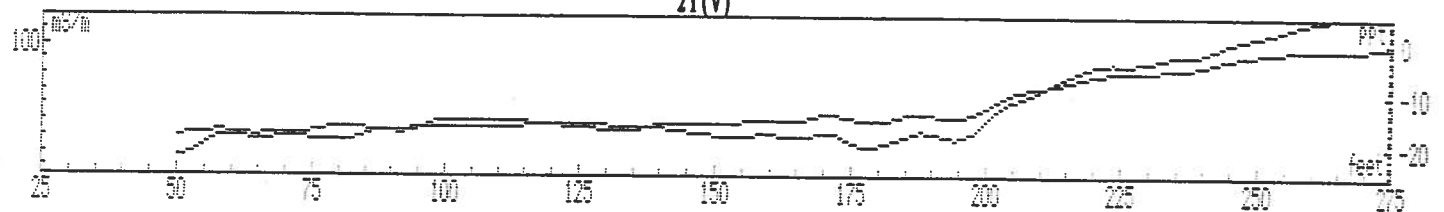
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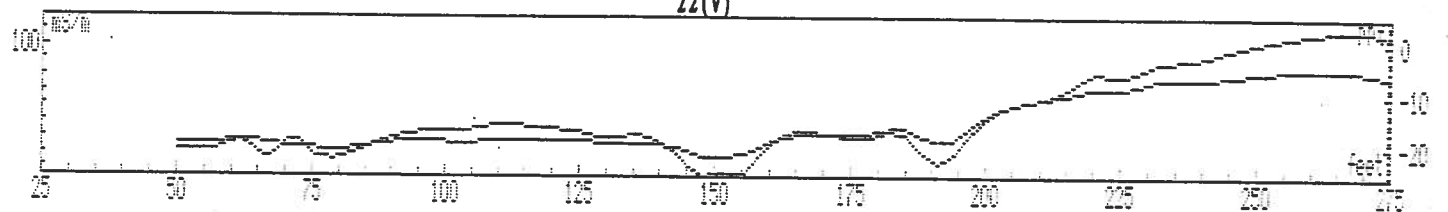
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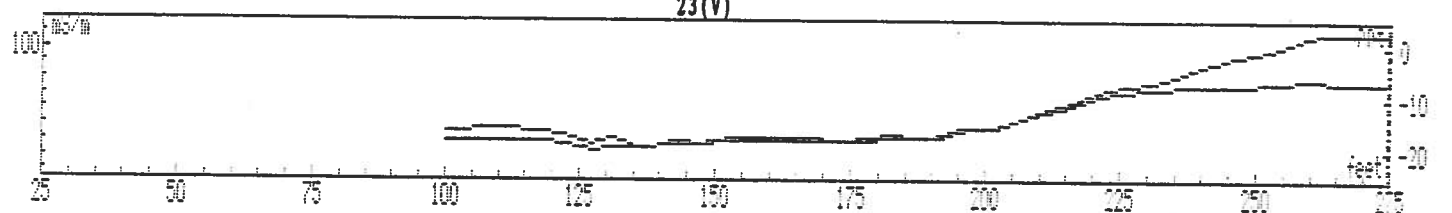
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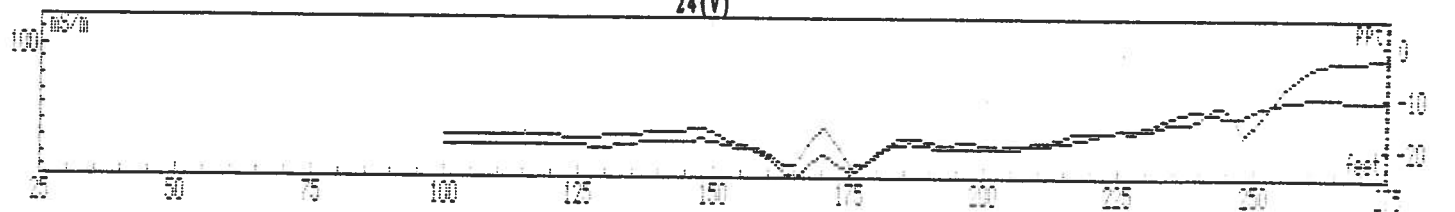
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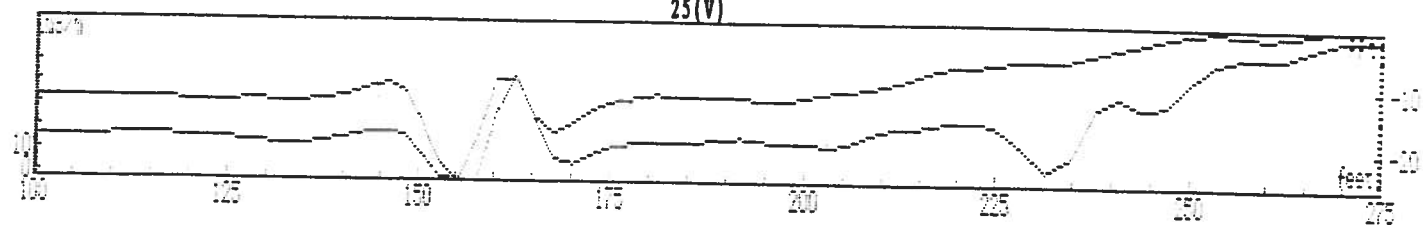


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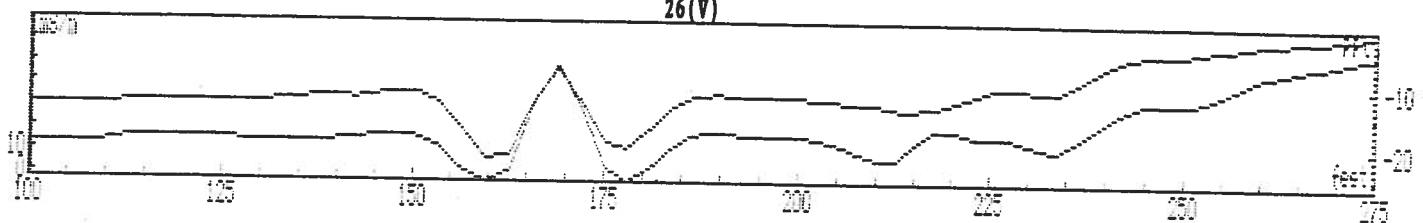


YONKERS WATER FRONT ELECTROMANETIC SURVEY "Parcel H"

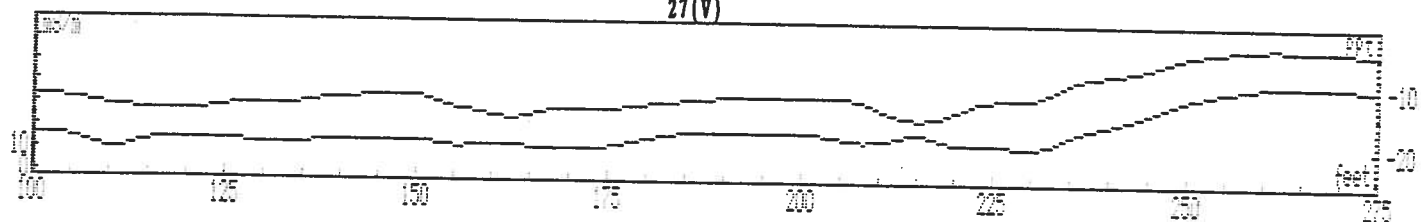
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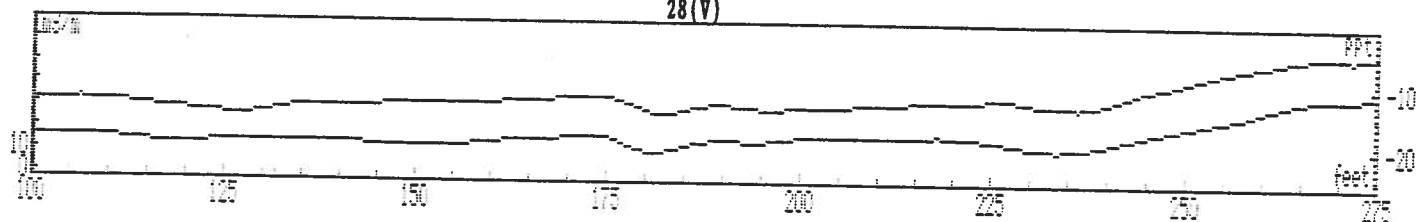
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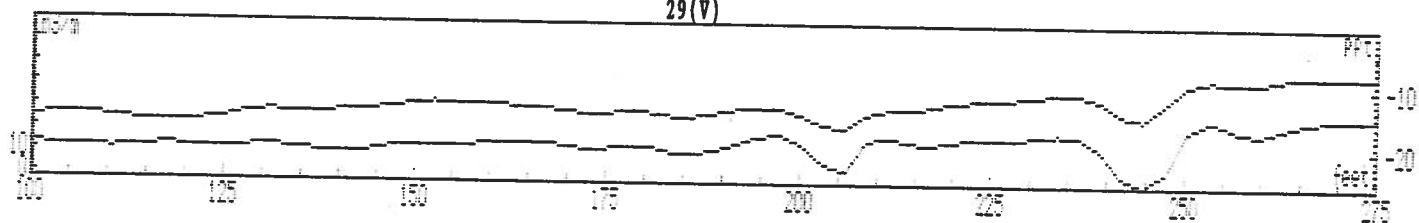
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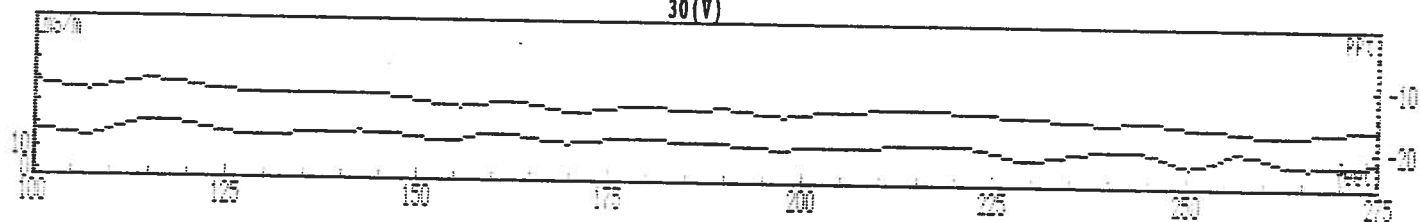
28(V)



29(V)



30(V)



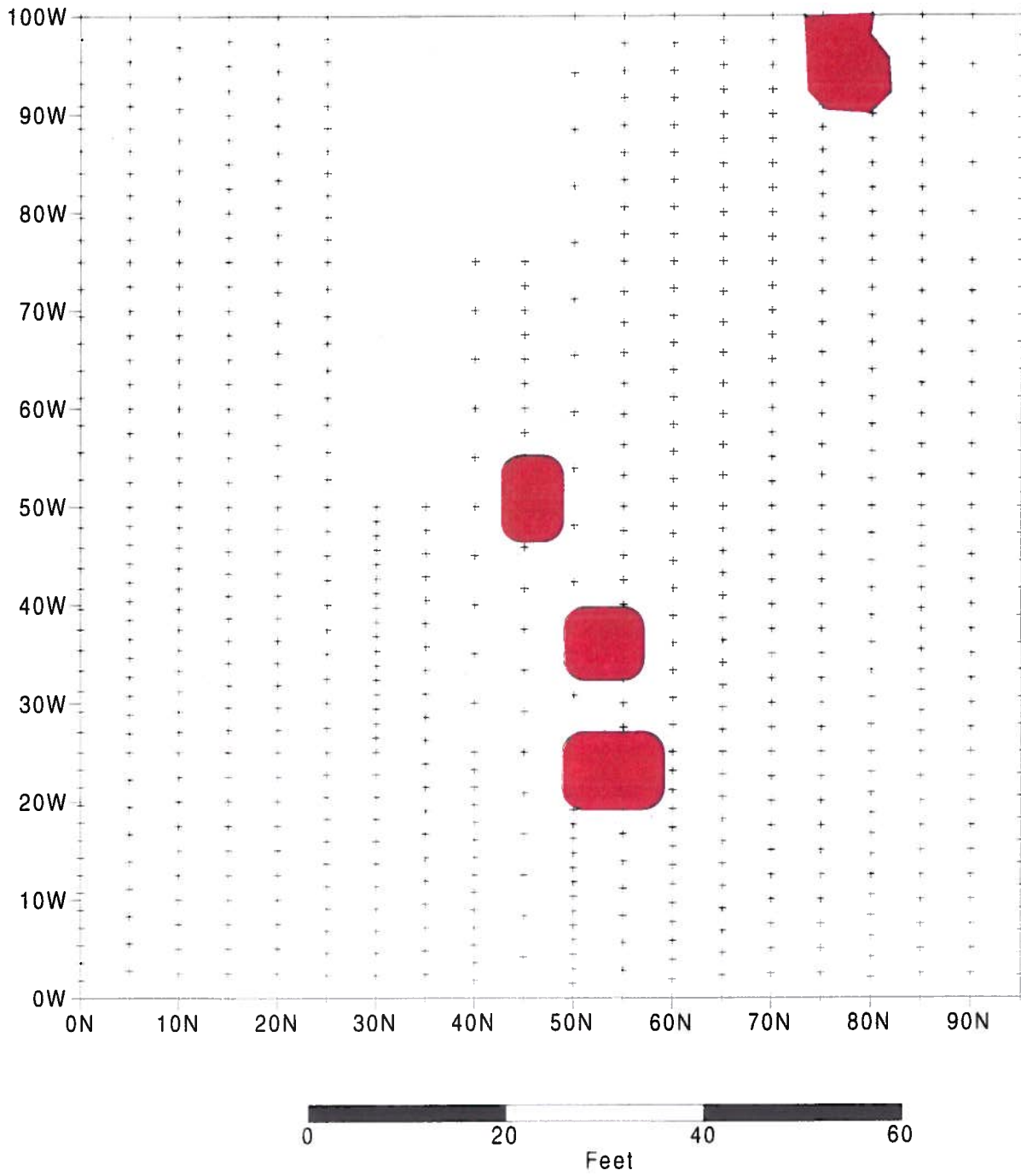
PARCEL I

YONKERS WATER FRONT

ELECTROMAGNETIC SURVEY

Parcel I

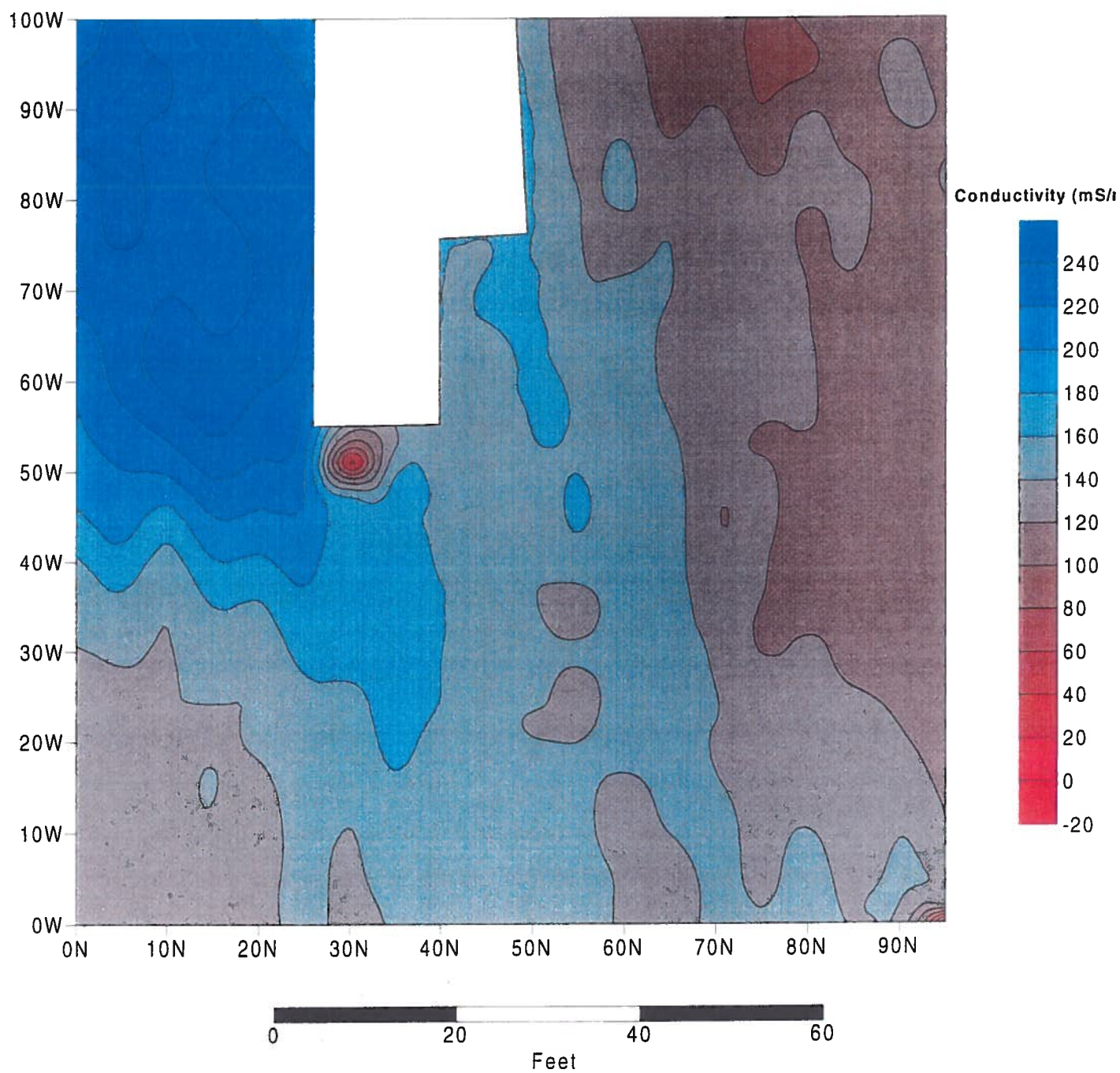
Map of Detected Anomalies



**YONKERS WATER FRONT
ELECTROMAGNETIC SURVEY**

Parcel I

Quad-Phase Component

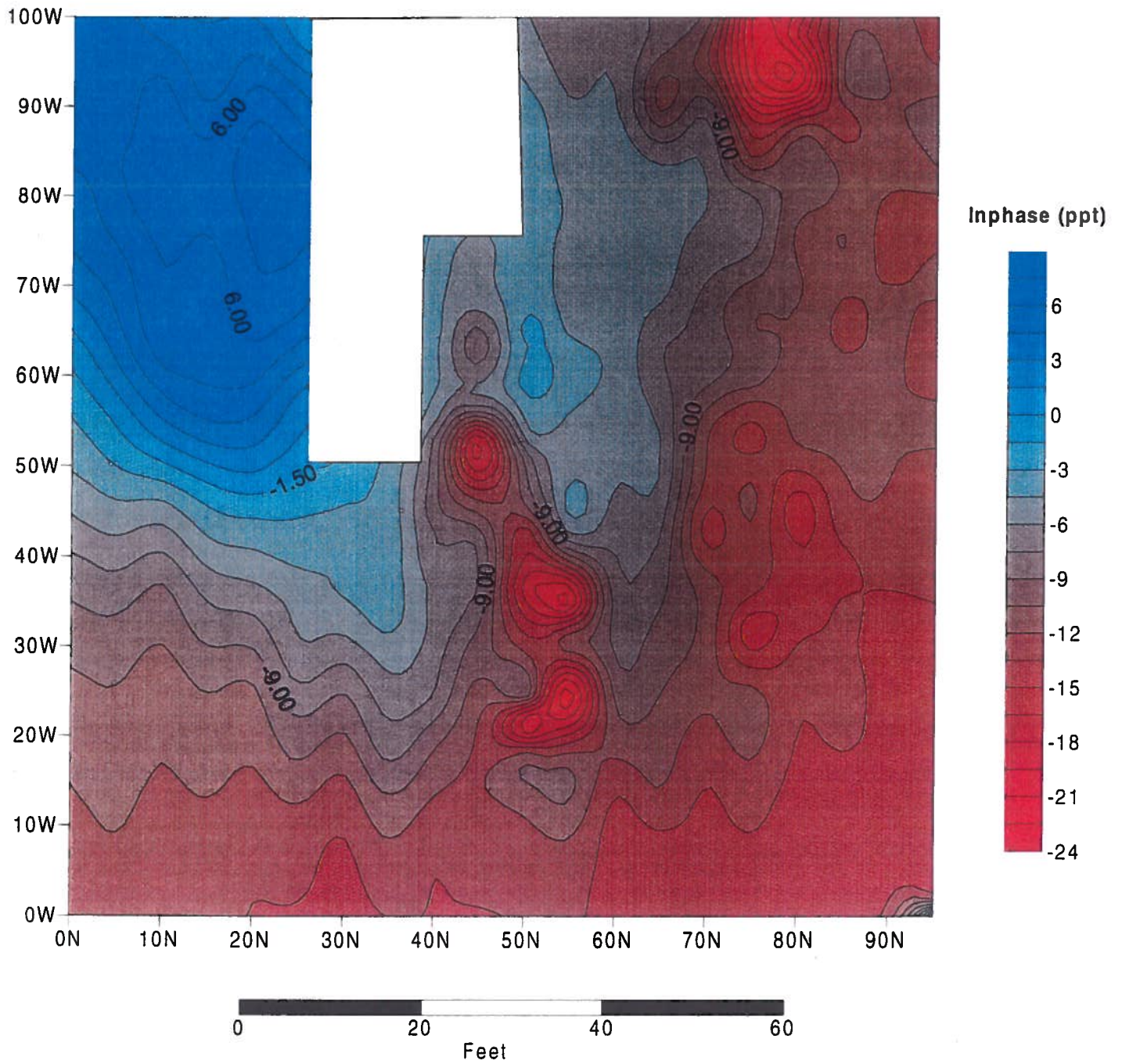


YONKERS WATER FRONT

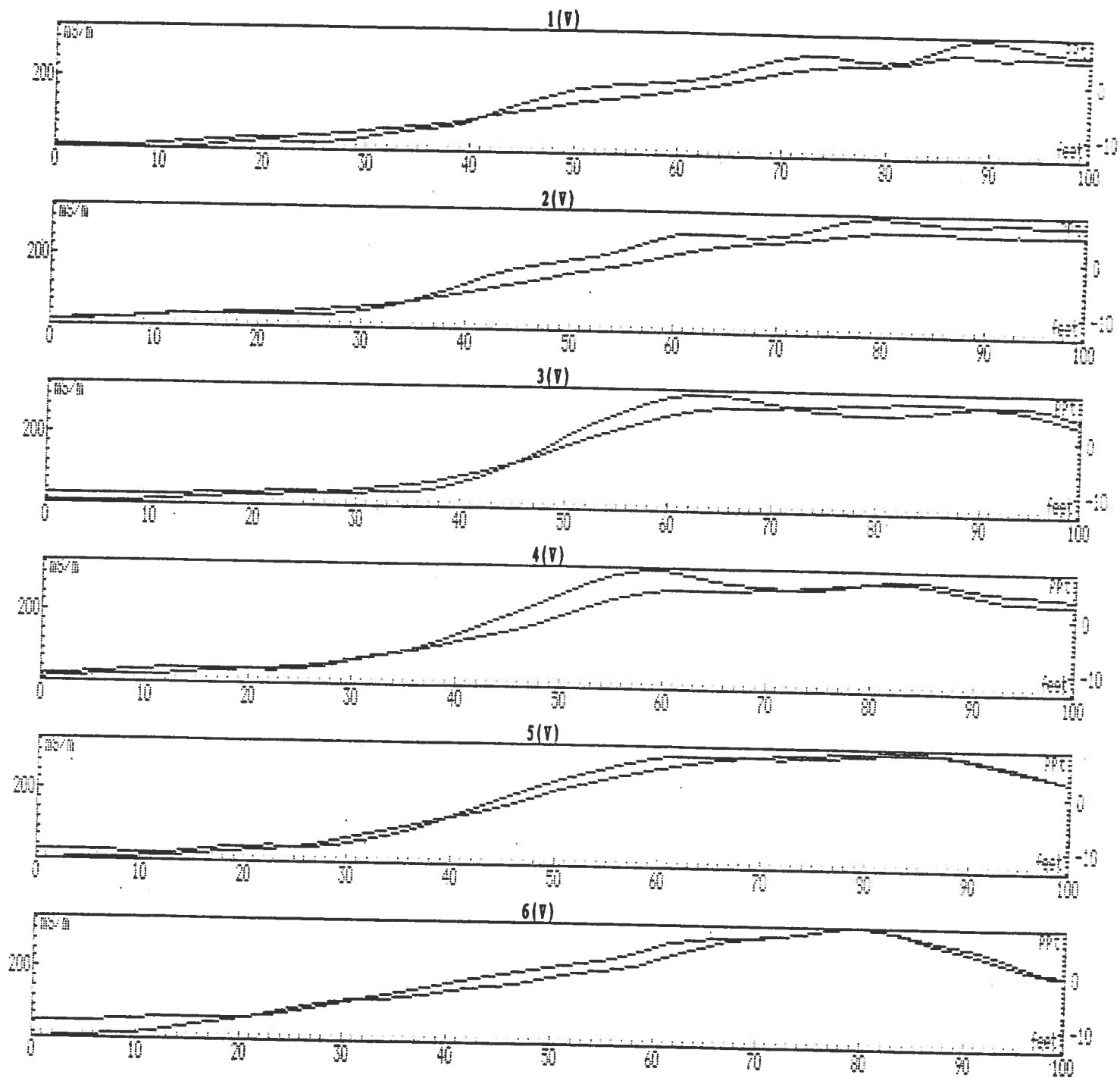
ELECTROMAGNETIC SURVEY

Parcel I

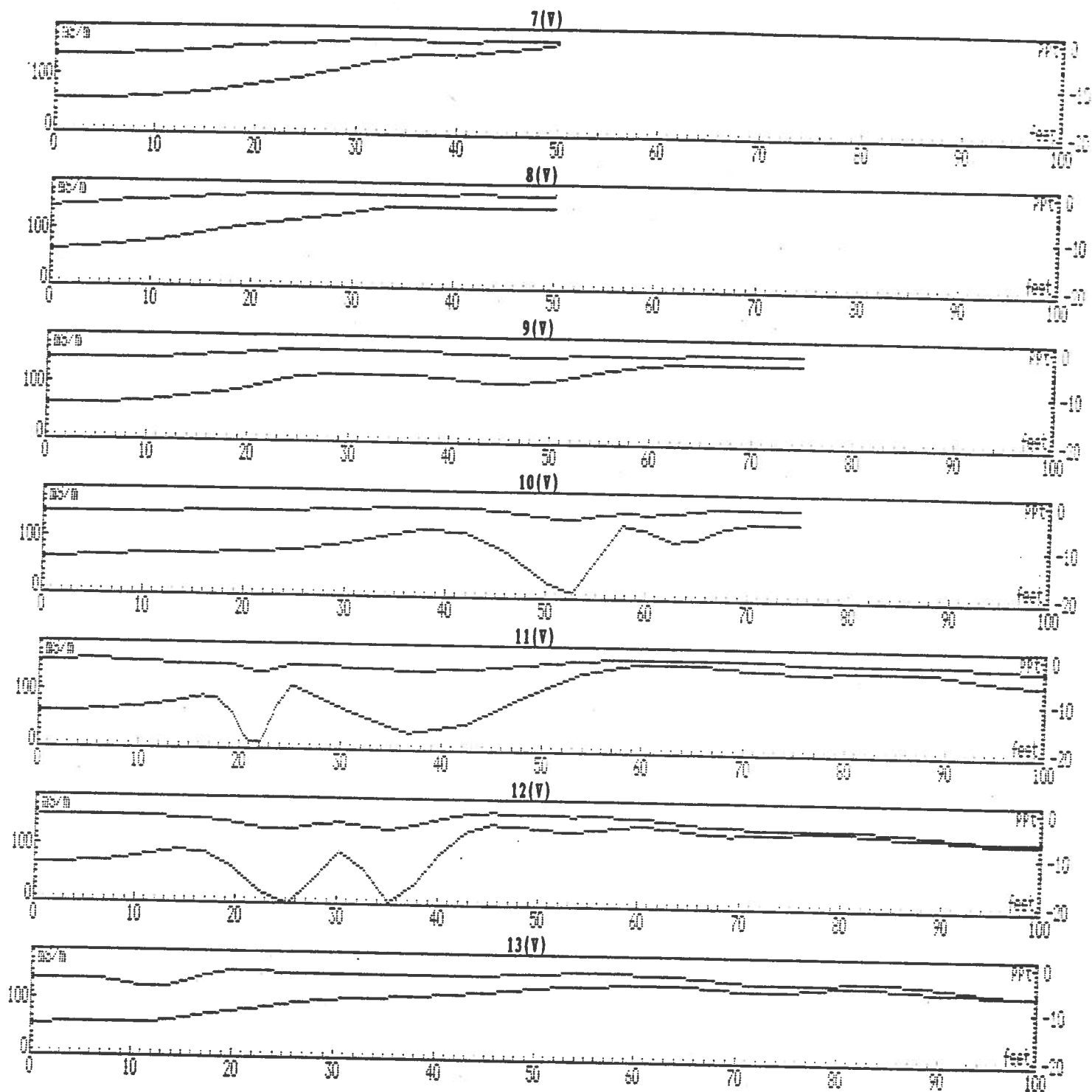
Inphase Response



YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel

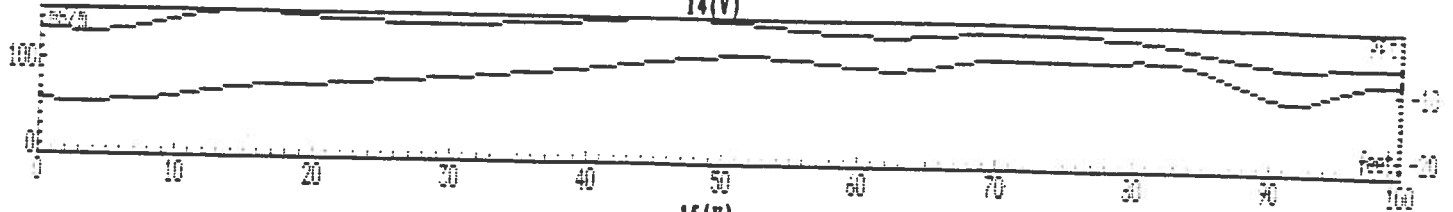


YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel

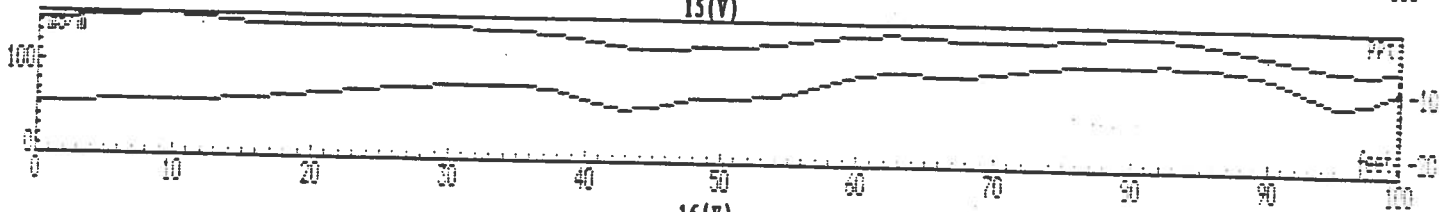


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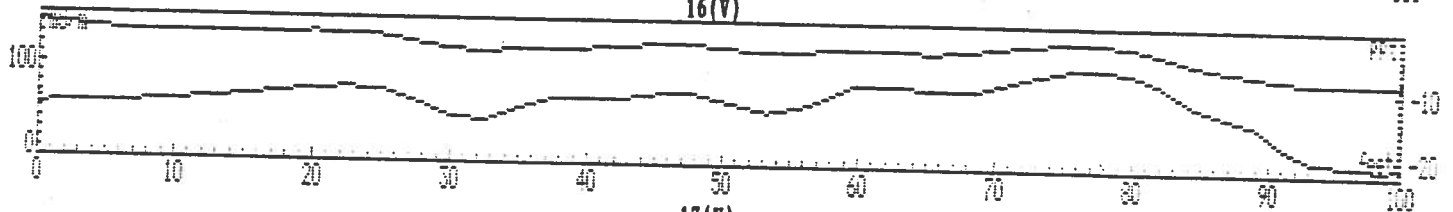
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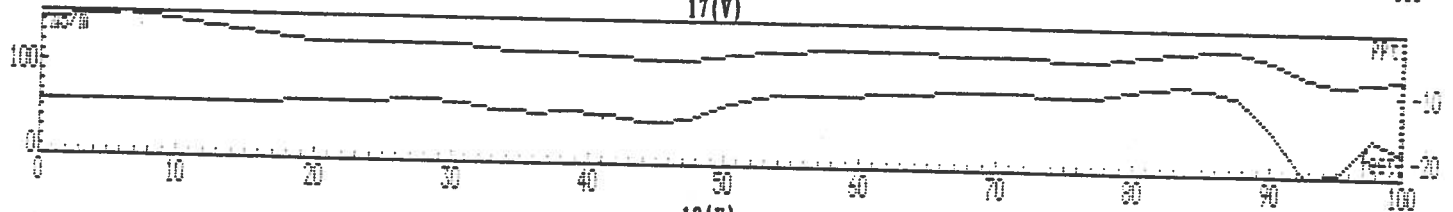
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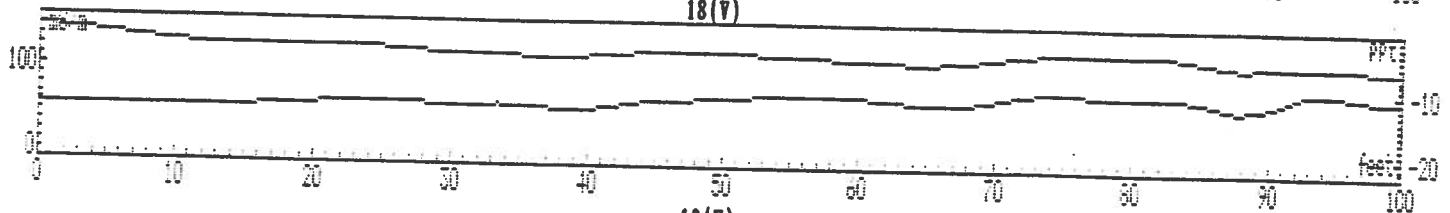
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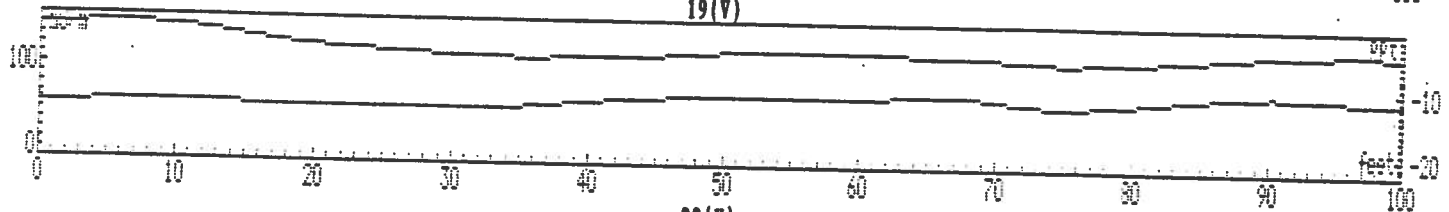
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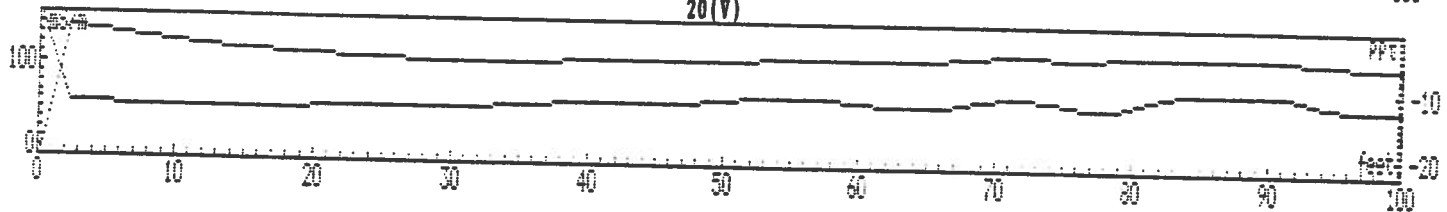
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19(V)



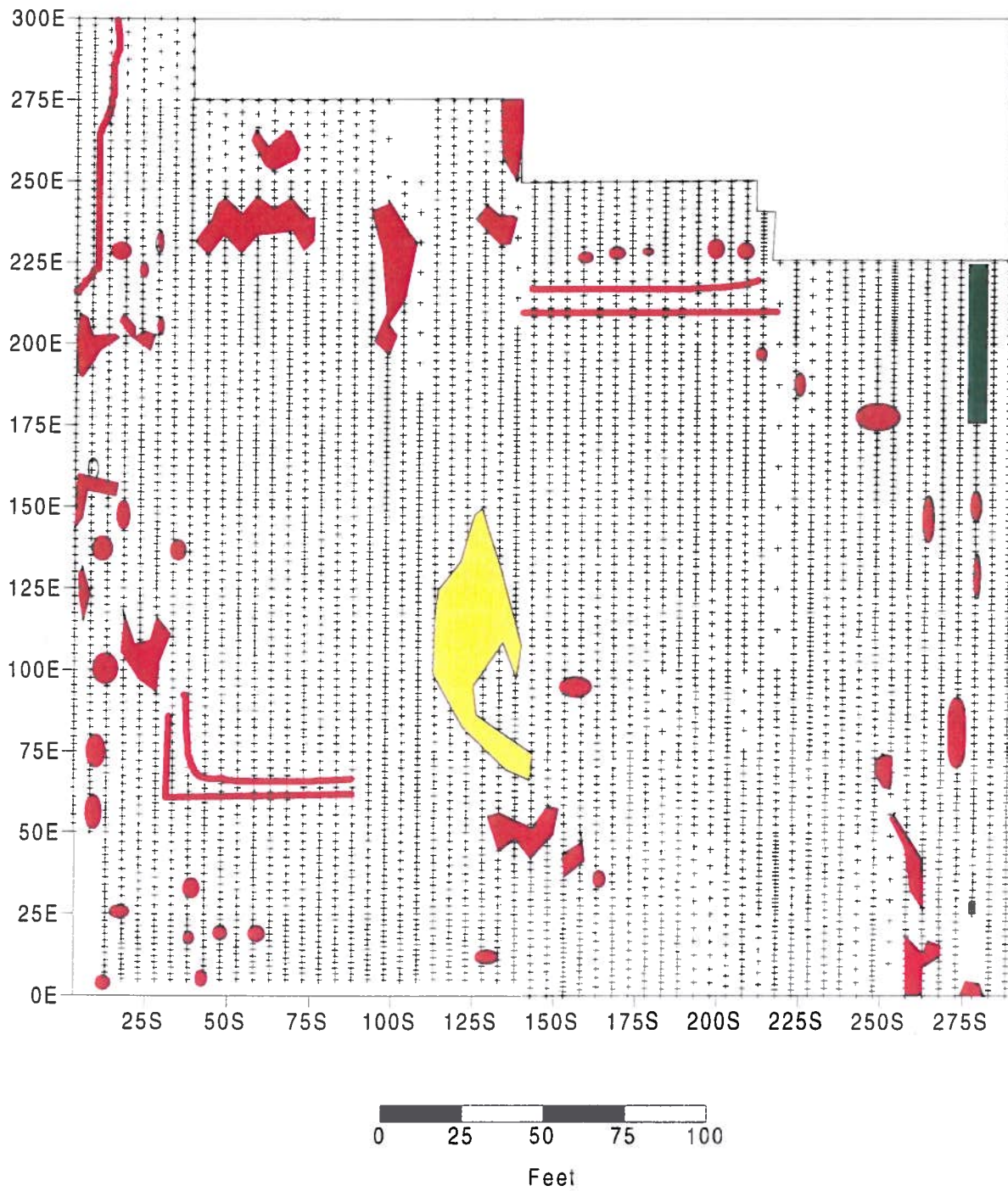
20(V)



PARCEL C

**YONKERS WATER FRONT
ELECTROMAGNETIC SURVEY**

**Parcel C
Map of Detected Anomalies**

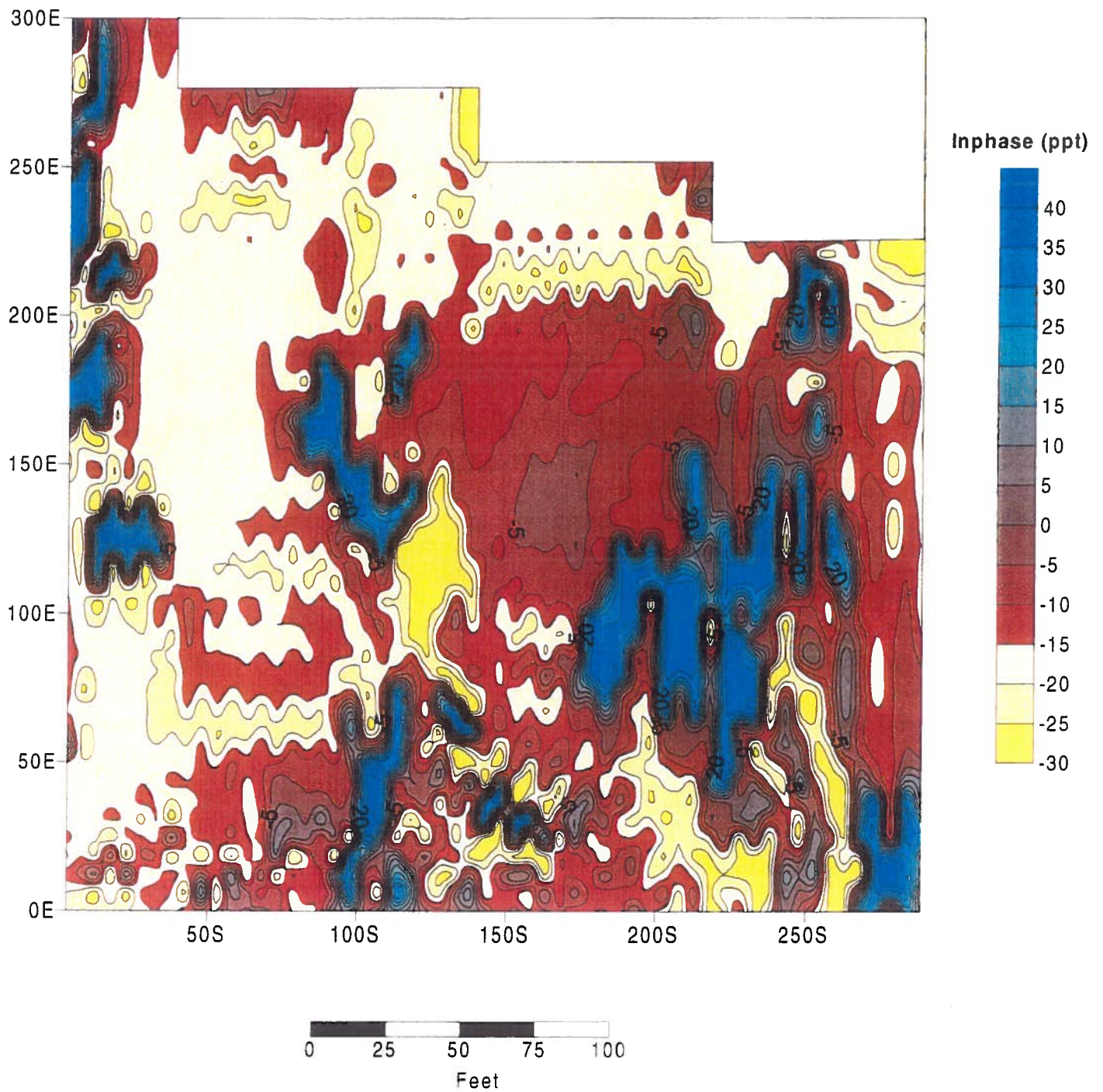


YONKERS WATER FRONT

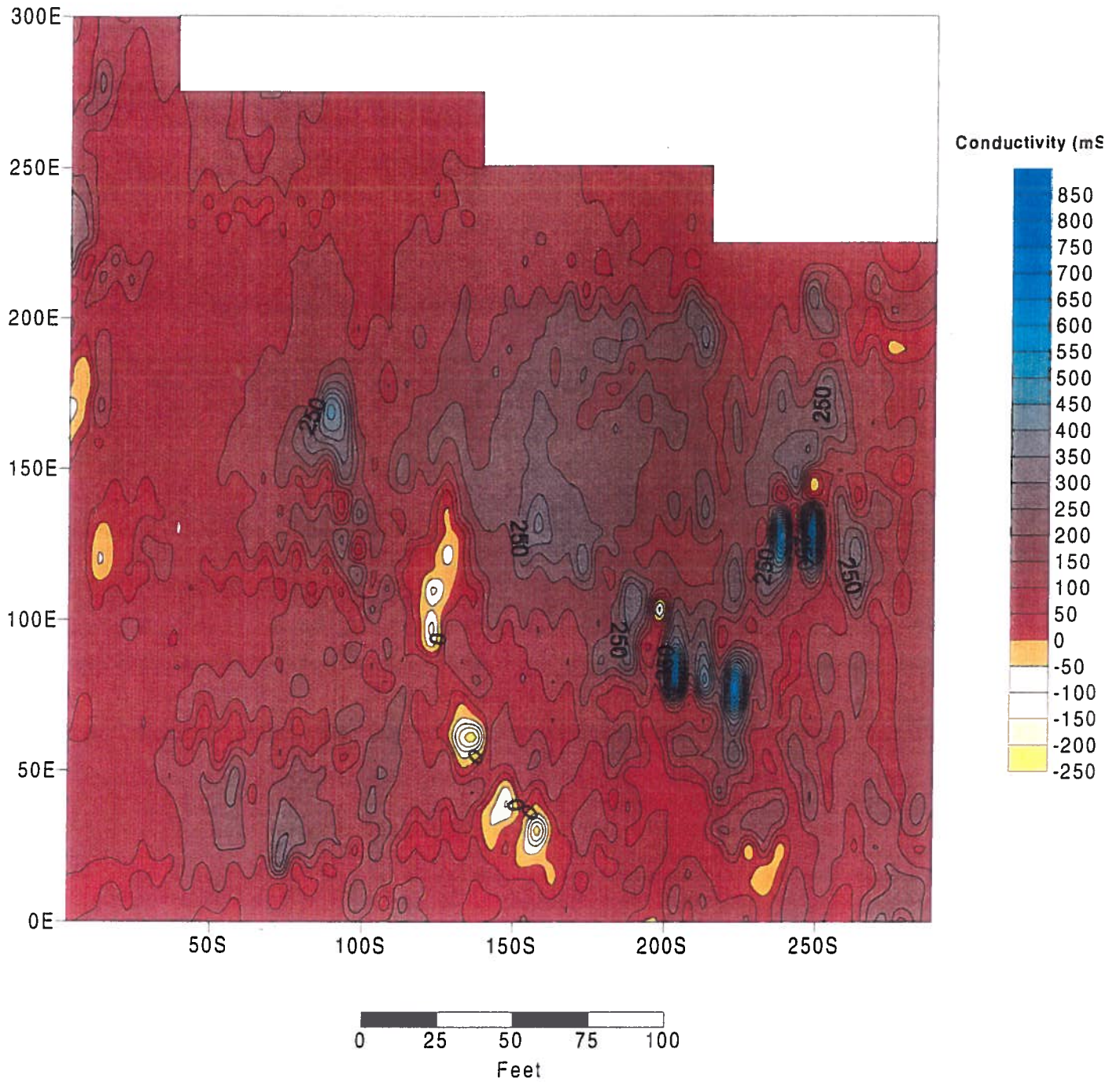
ELECTROMAGNETIC SURVEY

Parcel C

Inphase Response

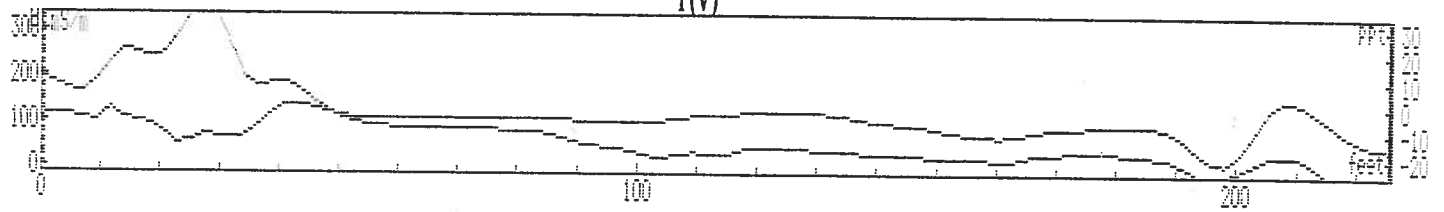


**YONKERS WATER FRONT
ELECTROMAGNETIC SURVEY
Parcel C
Quad-Phase Component**

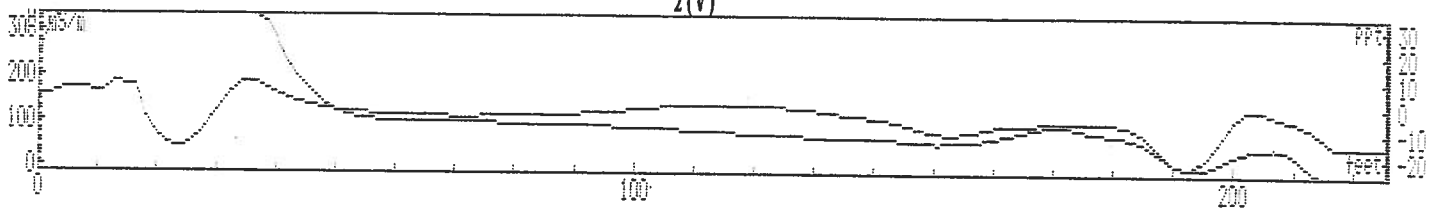


YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel c"

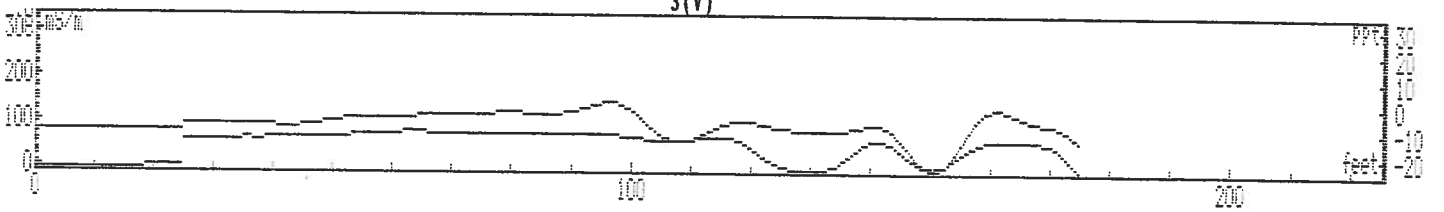
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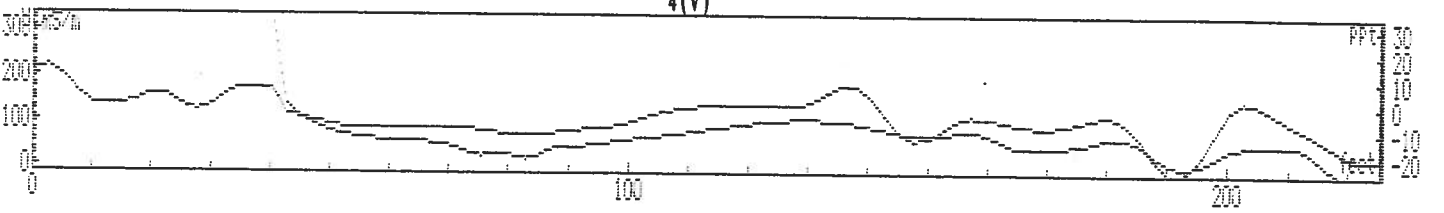
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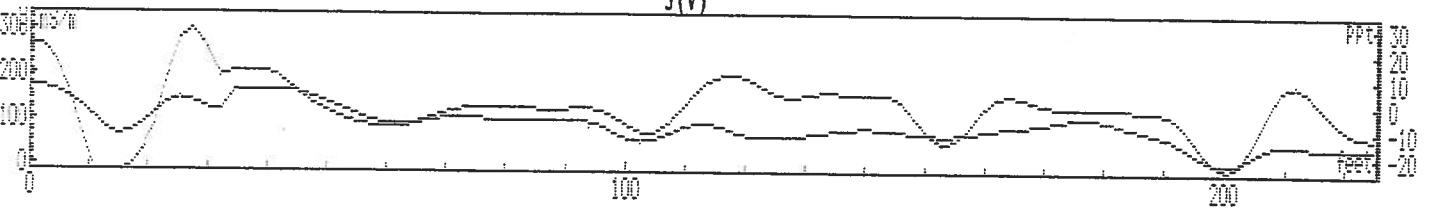
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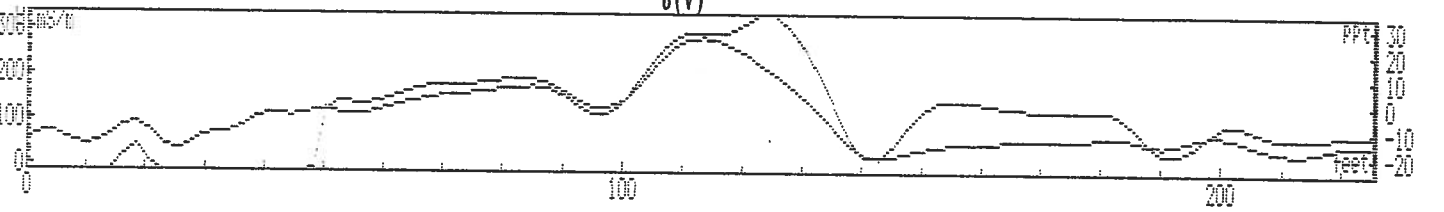
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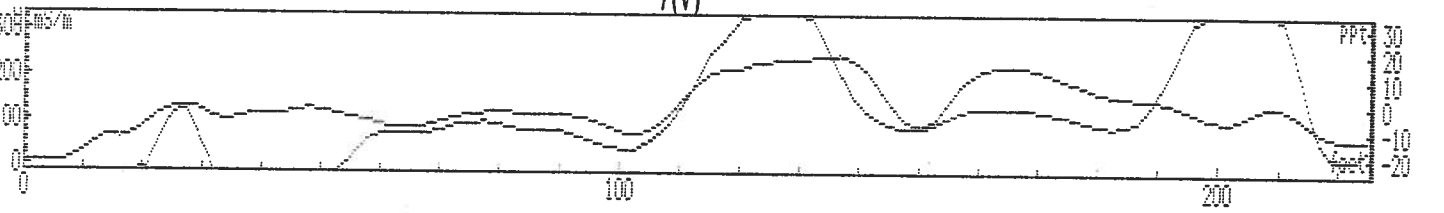
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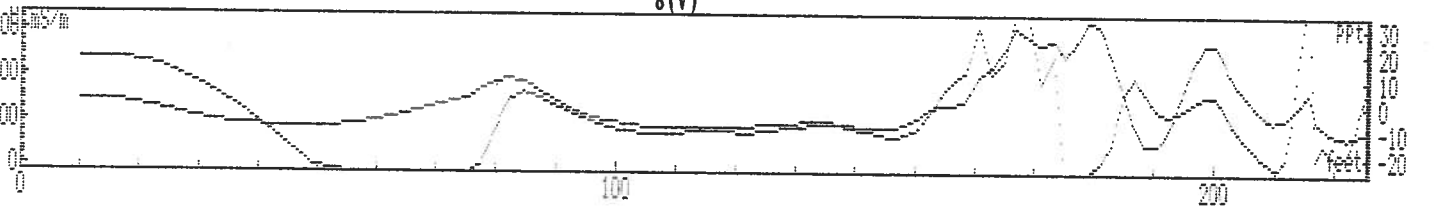
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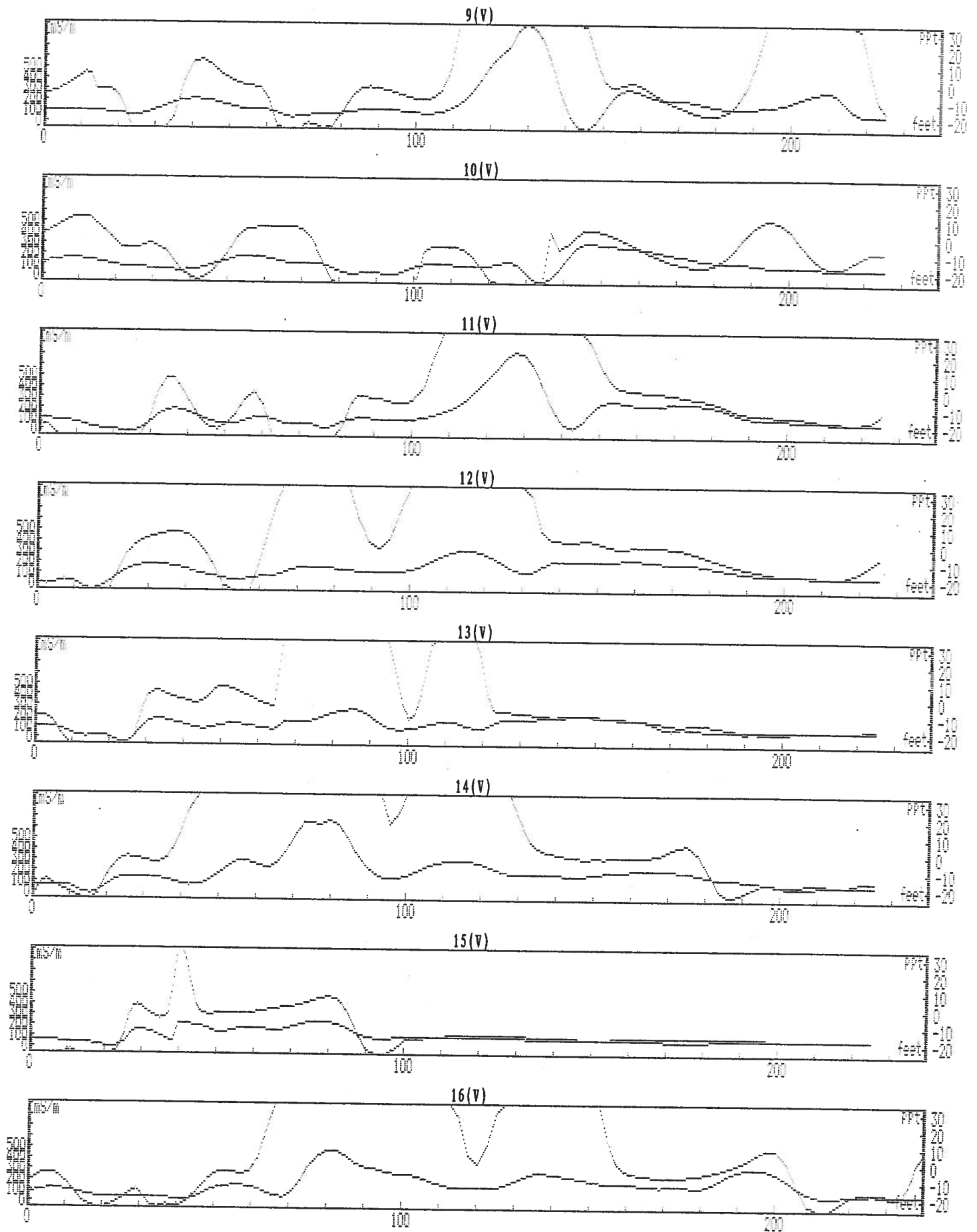
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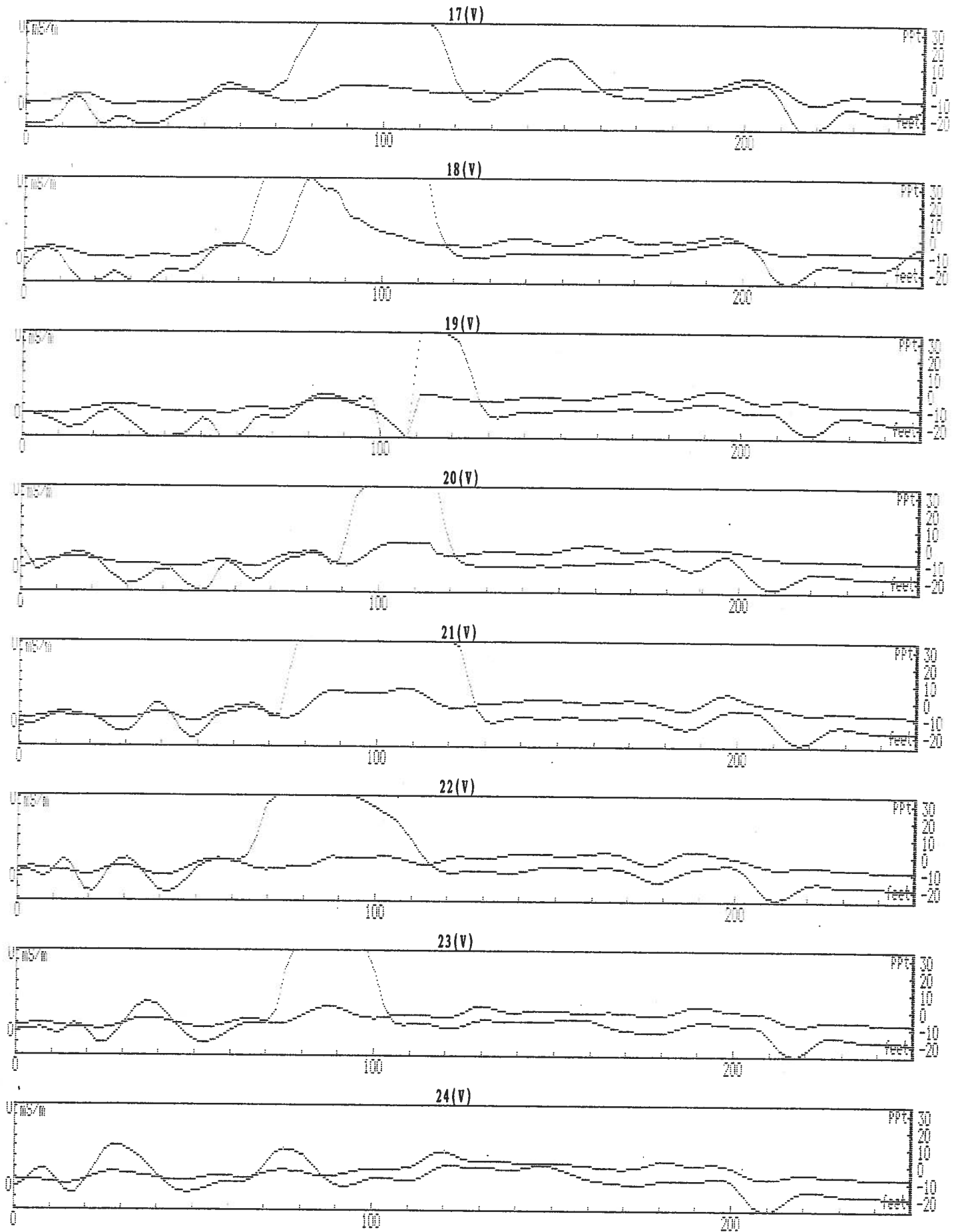
8(V)



YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel c"

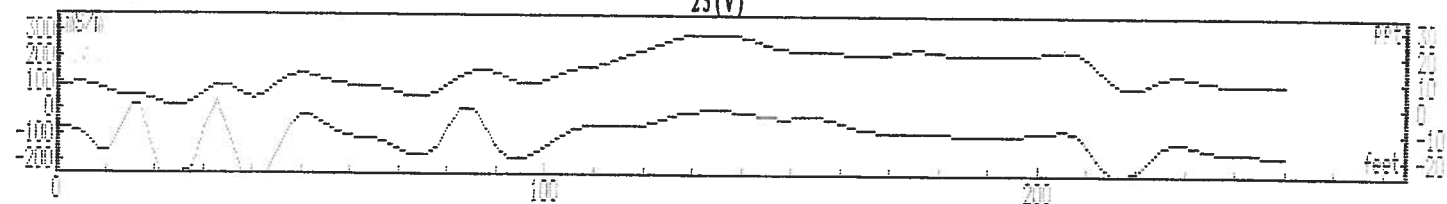


YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel c"

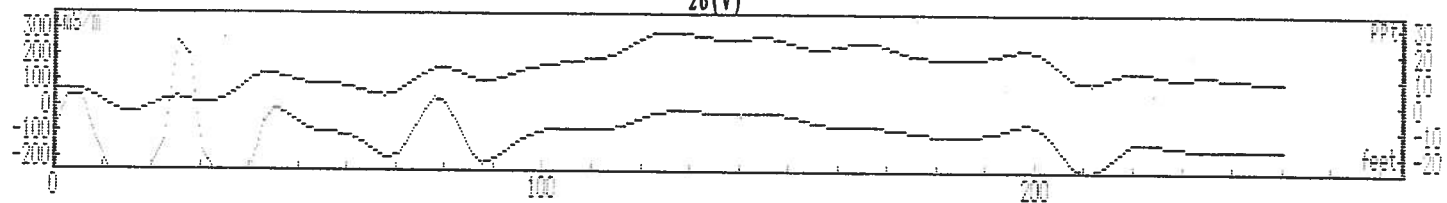


YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel c"

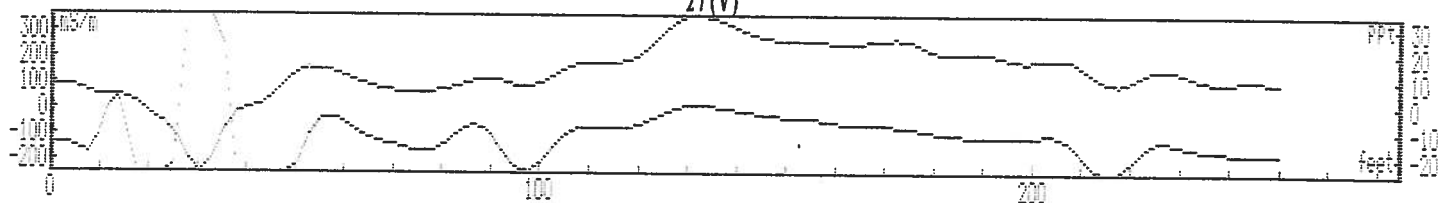
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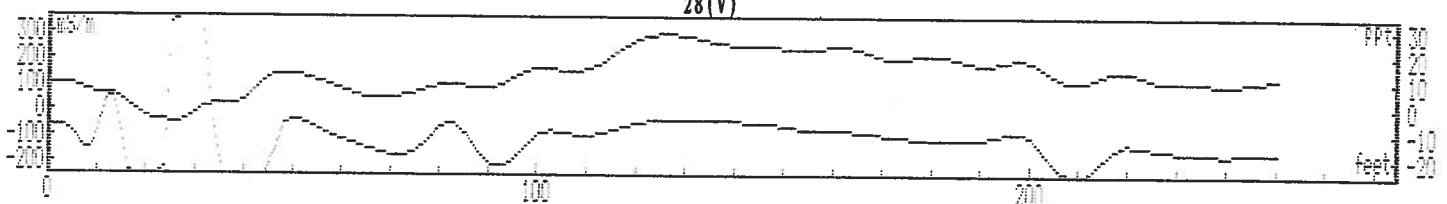
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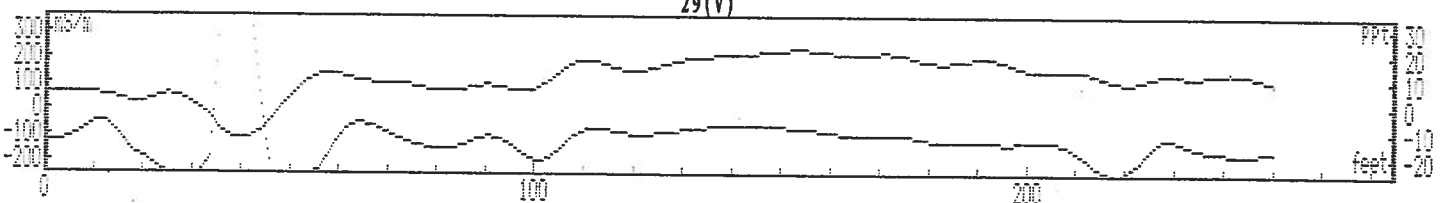
27(V)



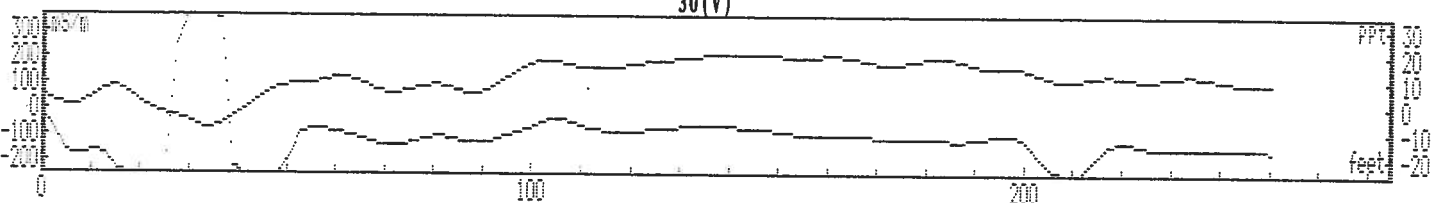
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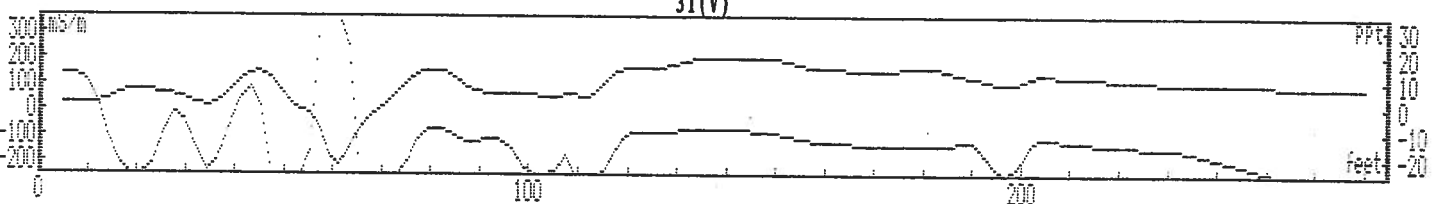
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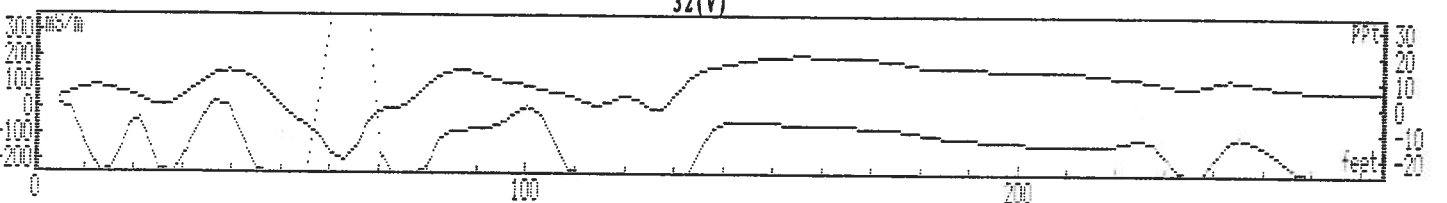
30(V)



31(V)

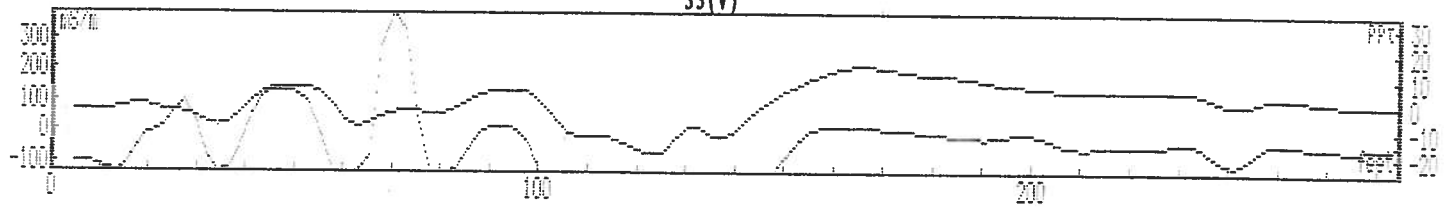


32(V)

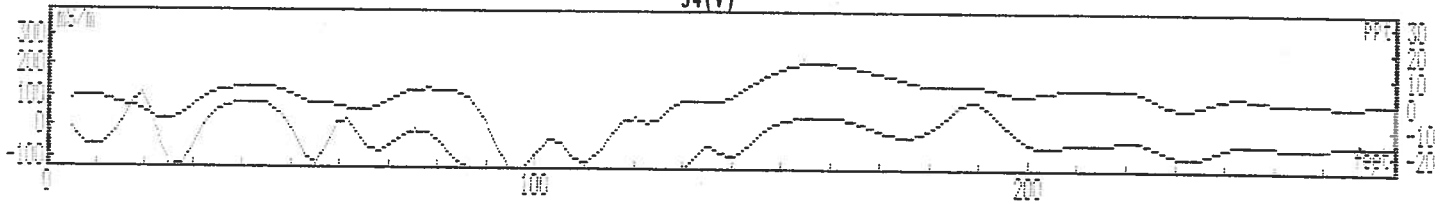


YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel c"

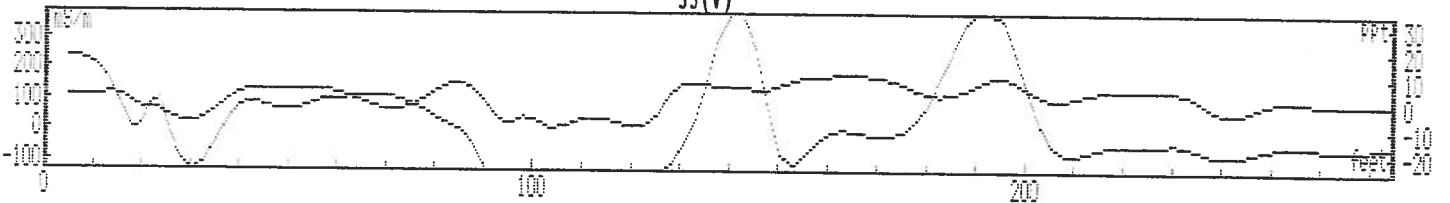
33(V)



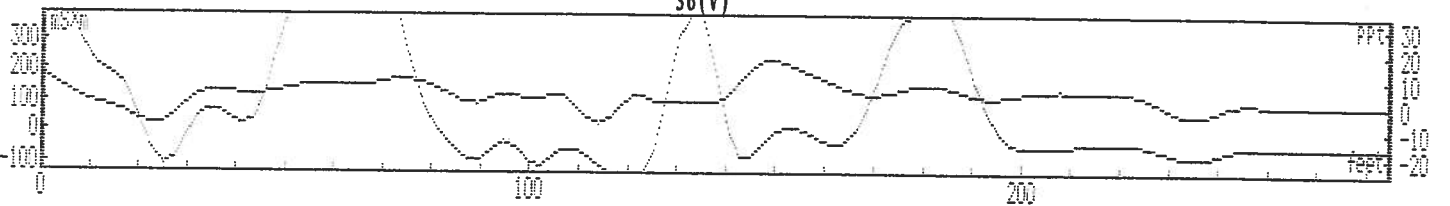
34(V)



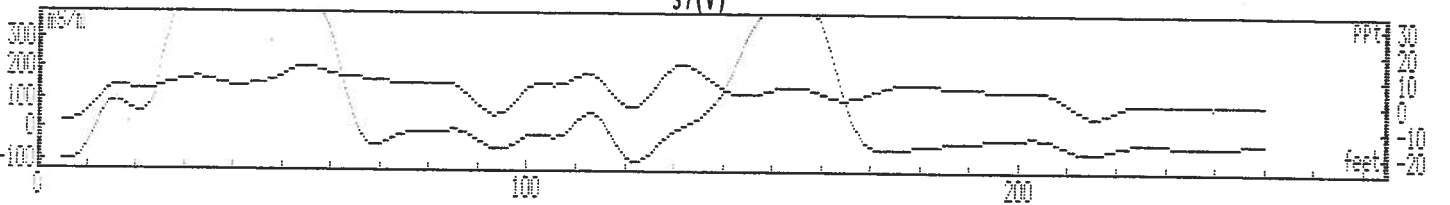
35(V)



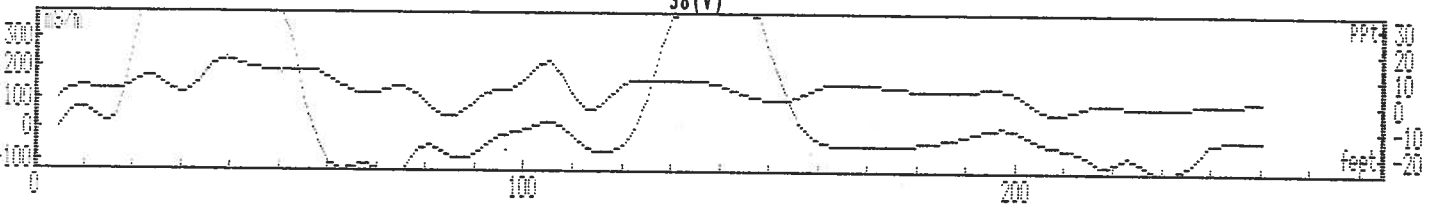
36(V)



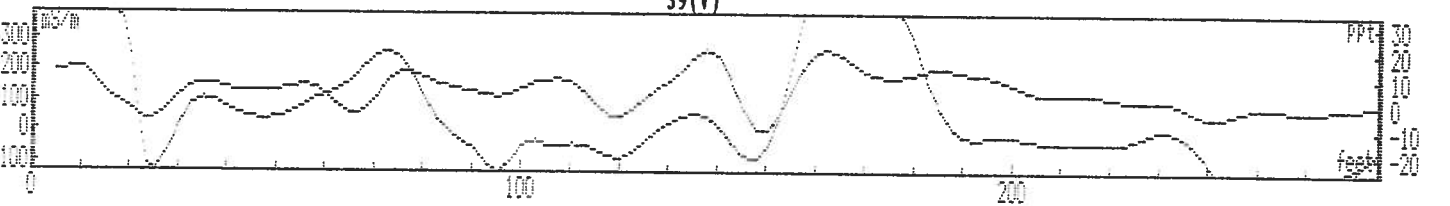
37(V)



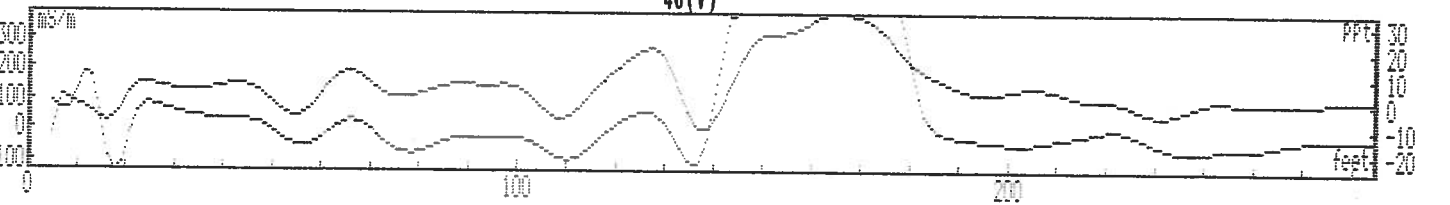
38(V)



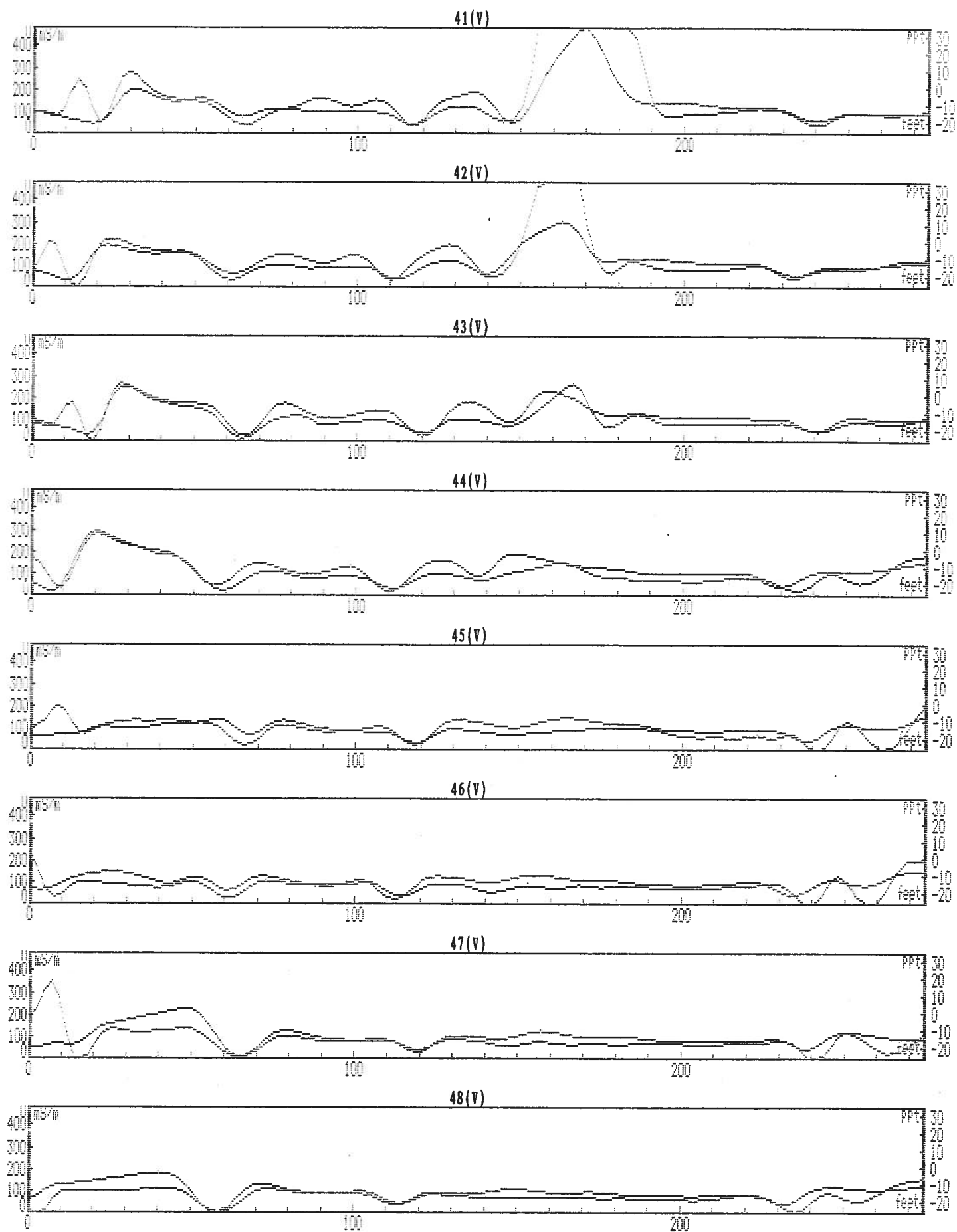
39(V)



40(V)

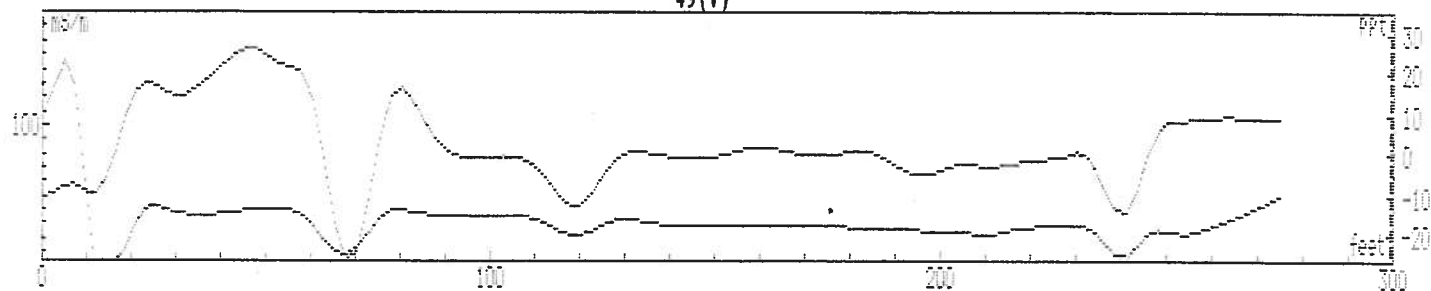


YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel c"

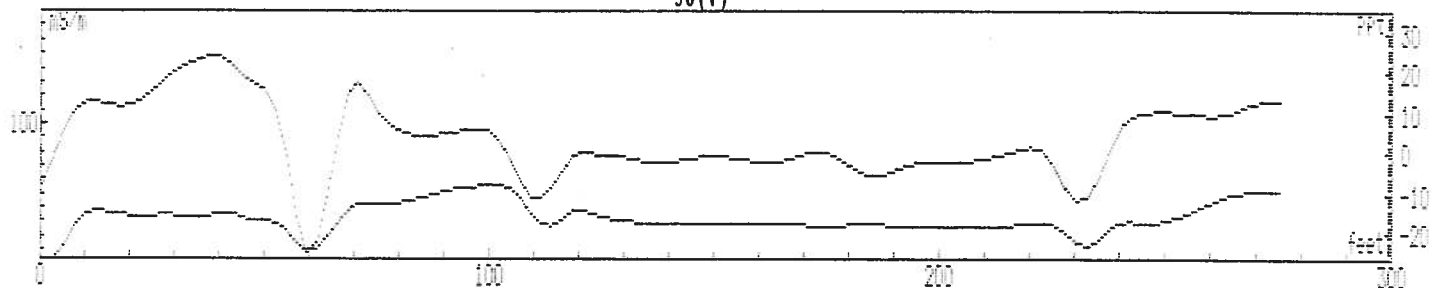


YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel c"

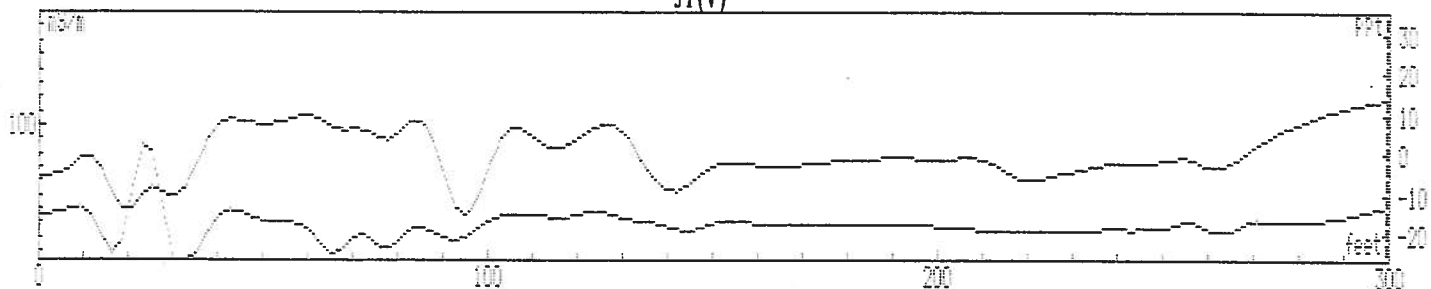
49(V)



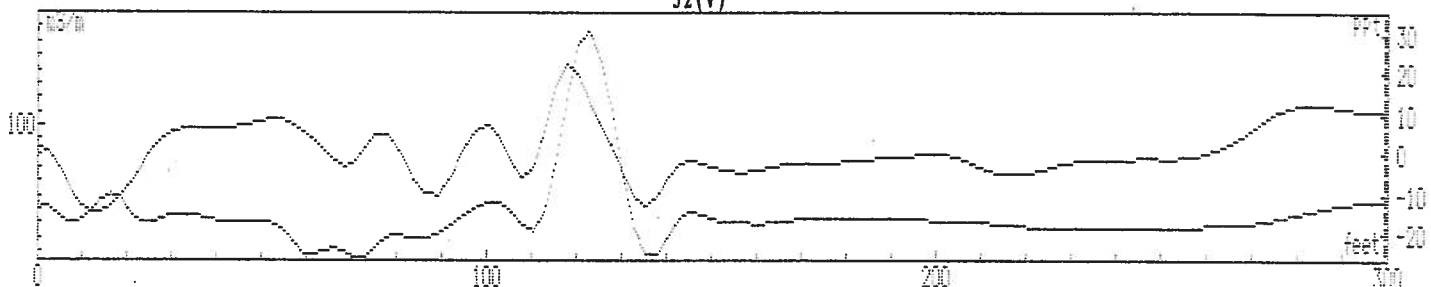
50(V)



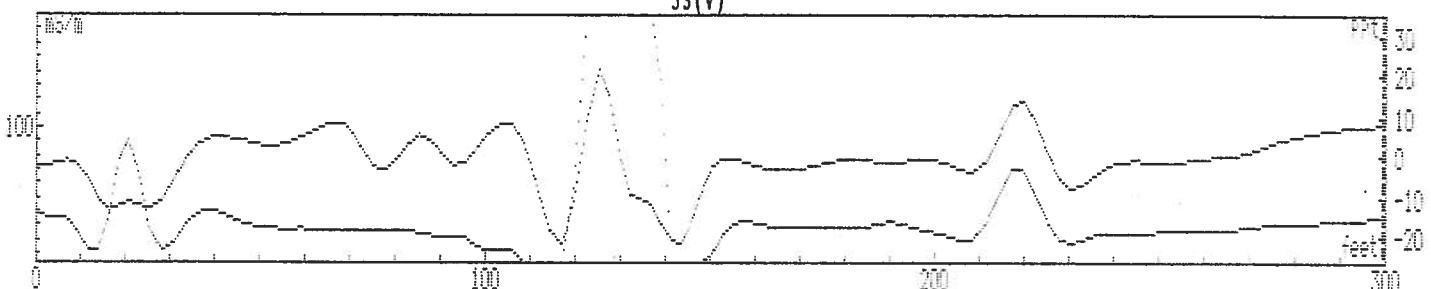
51(V)



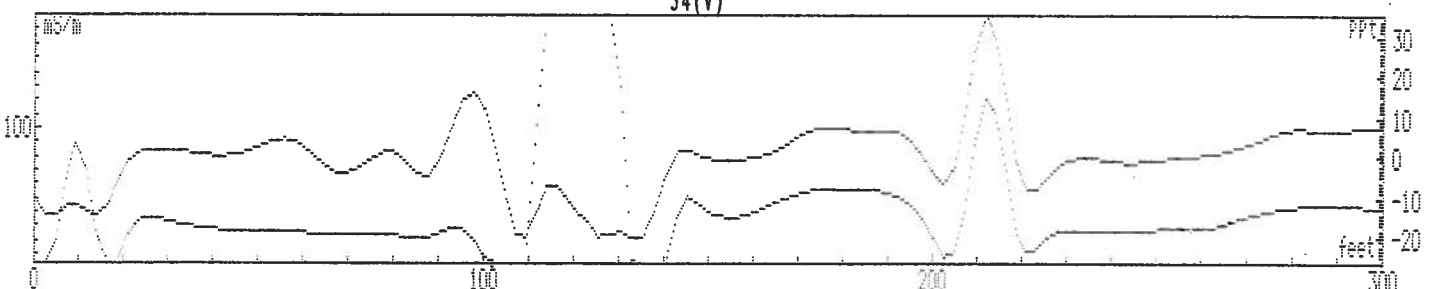
52(V)



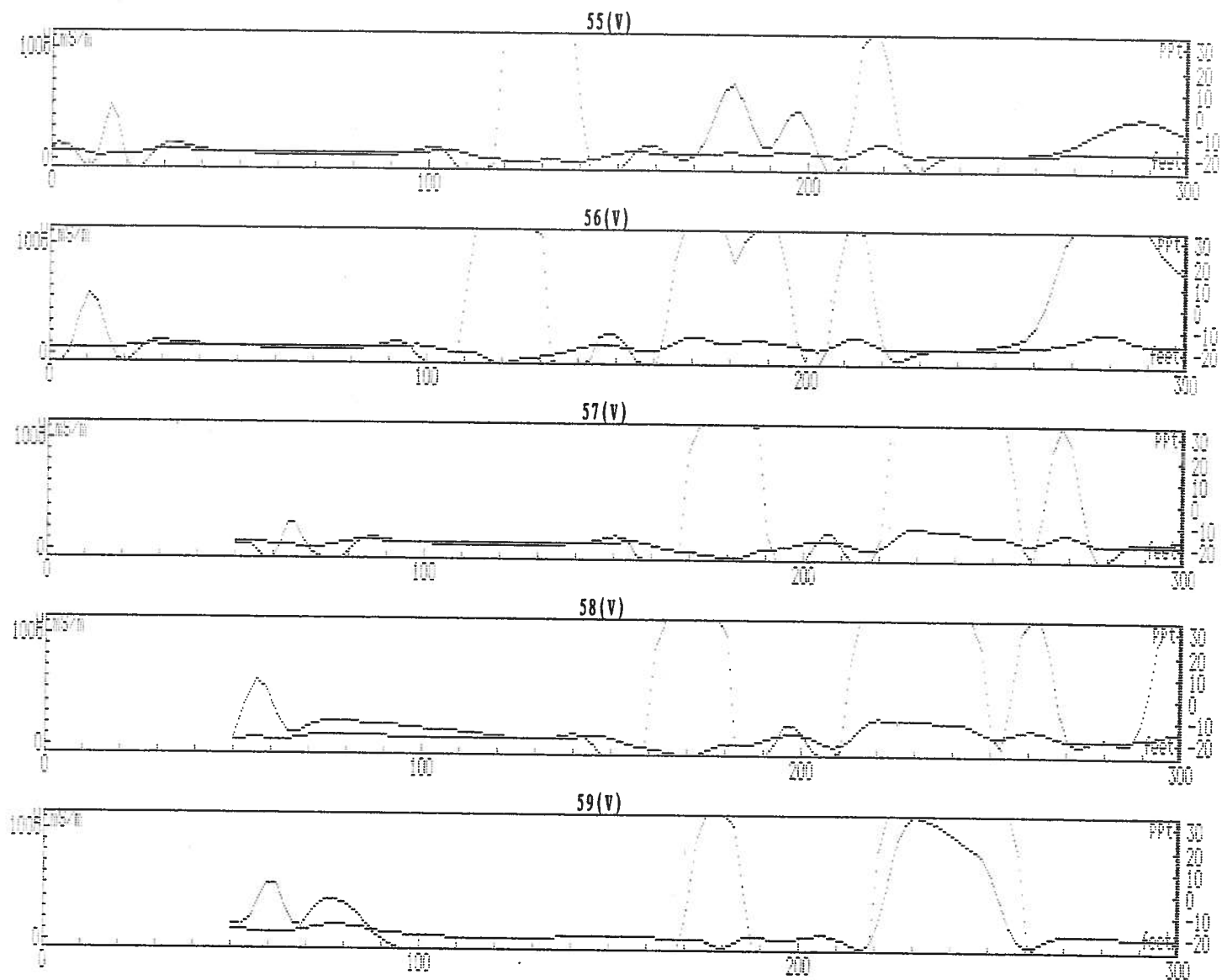
53(V)



54(V)



YONKERS WATER FRONT ELECTROMAGNETIC SURVEY "Parcel c"



APPENDIX C

APPENDIX C
SOIL GAS ANALYTICAL RESULTS

PARCEL H

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	30W 112S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	13		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	30W 150S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	15		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	30W 75S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	11		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	55W 175S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	14		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0.12
TCE	0.48
toluene	0.27
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	50W 200S	Date Collected:	6/11/98
Sample Injection Volume (µL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	20		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	35W 175S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	22		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	130W 230S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	24		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	2.48
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	30W 275S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	29		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	15W 220S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	28		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	140W 125S	Date Collected:	6/11/98
Sample Injection Volume (μL):	250	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	33		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	77.81
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	50W 240S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	30		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0.14
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	15W 31S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	34		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	60W 10S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	35		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	A	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	36		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	100W 160S	Date Collected:	6/11/98
Sample Injection Volume (μL):	1000	Date Analyzed:	6/11/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	17		

Target Compounds	Concentration (ppm w/v)
acetone	0
1,1-DCE	0
t-1,2-DCE	0
c-1,2-DCE	0
benzene	0
TCE	0
toluene	0
PCE	0
ethylbenzene	0
xylene(m,p)	0
xylene (o)	0
MEK	0

PARCEL I

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	101	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	24		

Target Compounds	Concentration (ppm w/v)
acetone	0.67
1,1-DCE	0.10
t-1,2-DCE	0.05
c-1,2-DCE	0.00
benzene	0.00
TCE	0.04
toluene	0.03
PCE	0.03
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	1 02	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	25		

Target Compounds	Concentration (ppm w/v)
acetone	2.20
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.03
TCE	0.00
toluene	0.04
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	I 03	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	26		

Target Compounds	Concentration (ppm w/v)
acetone	1.11
1,1-DCE	0.00
t-1,2-DCE	0.29
c-1,2-DCE	0.00
benzene	0.05
TCE	0.00
toluene	0.03
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	104	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	27		

Target Compounds	Concentration (ppm w/v)
acetone	1.77
1,1-DCE	0.00
t-1,2-DCE	0.34
c-1,2-DCE	0.00
benzene	0.07
TCE	0.03
toluene	0.11
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	I 05	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	28		

Target Compounds	Concentration (ppm w/v)
acetone	1.20
1,1-DCE	0.01
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.02
TCE	0.00
toluene	0.38
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	I 06	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	29		

Target Compounds	Concentration (ppm w/v)
acetone	10.83
1,1-DCE	0.16
t-1,2-DCE	0.09
c-1,2-DCE	0.00
benzene	0.03
TCE	0.03
toluene	0.03
PCE	0.07
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.04
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	1 07	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	30		

Target Compounds	Concentration (ppm w/v)
acetone	6.37
1,1-DCE	0.01
t-1,2-DCE	0.01
c-1,2-DCE	0.09
benzene	0.02
TCE	0.06
toluene	0.11
PCE	0.00
ethylbenzene	0.31
xylene(m,p)	0.00
xylene (o)	0.30
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	1 08	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	31		

Target Compounds	Concentration (ppm w/v)
acetone	1.83
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.24
benzene	0.01
TCE	0.00
toluene	0.03
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	1 09	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	32		

Target Compounds	Concentration (ppm w/v)
acetone	1.45
1,1-DCE	0.21
t-1,2-DCE	0.14
c-1,2-DCE	0.00
benzene	0.11
TCE	0.09
toluene	0.06
PCE	0.06
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	I 10	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	33		

Target Compounds	Concentration (ppm w/v)
acetone	1.58
1,1-DCE	0.00
t-1,2-DCE	0.02
c-1,2-DCE	0.00
benzene	0.01
TCE	0.00
toluene	0.02
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel I

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	I 11	Date Collected:	9/23/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/23/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	34		

Target Compounds	Concentration (ppm w/v)
acetone	0.22
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.00
TCE	0.04
toluene	0.03
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

PARCEL C

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	C 275E 15S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	6		

Target Compounds	Concentration (ppm w/v)
acetone	1.05
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.01
TCE	0.03
toluene	0.09
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 250E 90S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	7		

Target Compounds	Concentration (ppm w/v)
acetone	1.13
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.00
TCE	0.03
toluene	0.05
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 225E 190S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	8		

Target Compounds	Concentration (ppm w/v)
acetone	0.97
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.01
TCE	0.04
toluene	0.09
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 175E 260S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	9		

Target Compounds	Concentration (ppm w/v)
acetone	0.62
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.00
TCE	0.02
toluene	0.03
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	C 195E 240S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	11		

Target Compounds	Concentration (ppm w/v)
acetone	1.01
1,1-DCE	0.00
t-1,2-DCE	0.01
c-1,2-DCE	0.00
benzene	0.00
TCE	0.00
toluene	0.03
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 170E 115S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	12		

Target Compounds	Concentration (ppm w/v)
acetone	0.54
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.00
TCE	0.02
toluene	0.03
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C
Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 195E 40S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	13		

Target Compounds	Concentration (ppm w/v)
acetone	1.80
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.00
TCE	0.03
toluene	0.07
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.04
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	C 135E 15S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	14		

Target Compounds	Concentration (ppm w/v)
acetone	4.24
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.06
benzene	0.09
TCE	0.25
toluene	0.56
PCE	0.00
ethylbenzene	0.12
xylene(m,p)	0.00
xylene (o)	0.15
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	C 100E 100S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	15		

Target Compounds	Concentration (ppm w/v)
acetone	2.85
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.00
TCE	0.03
toluene	0.05
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.05
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 105E 160S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	16		

Target Compounds	Concentration (ppm w/v)
acetone	3.43
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.00
TCE	0.02
toluene	0.04
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.07
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	C 100E 260S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	17		

Target Compounds	Concentration (ppm w/v)
acetone	1.72
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.00
TCE	0.00
toluene	0.03
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.00

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	C 50E 200S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	18		

Target Compounds	Concentration (ppm w/v)
acetone	5.77
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.02
TCE	0.04
toluene	0.17
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.20
MEK	1.09

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 50E 15S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	19		

Target Compounds	Concentration (ppm w/v)
acetone	2.08
1,1-DCE	0.01
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.02
TCE	0.00
toluene	0.06
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.55

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 40E 100S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	20		

Target Compounds	Concentration (ppm w/v)
acetone	2.91
1,1-DCE	0.01
t-1,2-DCE	0.00
c-1,2-DCE	0.15
benzene	0.13
TCE	0.00
toluene	0.10
PCE	0.00
ethylbenzene	0.13
xylene(m,p)	0.00
xylene (o)	0.07
MEK	1.21

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

**Volatile Organics Results
by Photovac GC/PID**

Sample Identification Code:	C 40E 100S	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	20		

Target Compounds	Concentration (ppm w/v)
acetone	2.10
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.15
benzene	0.13
TCE	0.00
toluene	0.10
PCE	0.00
ethylbenzene	0.13
xylene(m,p)	0.00
xylene (o)	0.07
MEK	1.21

**YONKERS WATERFRONT
ERM-FAST ANALYTICAL RESULTS**

Parcel C

Volatile Organics Results
by Photovac GC/PID

Sample Identification Code:	C 01	Date Collected:	9/24/98
Sample Injection Volume (μL):	250	Date Analyzed:	9/24/98
Dilution Factor:	1		
Sample Volume (L):	1	GC Operator:	WKW
Analysis #:	21		

Target Compounds	Concentration (ppm w/v)
acetone	4.48
1,1-DCE	0.00
t-1,2-DCE	0.00
c-1,2-DCE	0.00
benzene	0.01
TCE	0.00
toluene	0.05
PCE	0.00
ethylbenzene	0.00
xylene(m,p)	0.00
xylene (o)	0.00
MEK	0.02

APPENDIX D

APPENDIX D

GROUND PENETRATING RADAR REPORT

**GROUND PENETRATING RADAR SURVEY
YONKERS DOWNTOWN WATERFRONT
YONKERS, NEW YORK**

Prepared for:

AKRF, Inc.
34 South Broadway
White Plains, NY 10601

Prepared by:

Hager-Richter Geoscience, Inc.
8 Industrial Way - D10
Salem, New Hampshire 03079

File 98D22
June, 1998

HAGER-RICHTER GEOSCIENCE, INC.

CONSULTANTS IN GEOLOGY & GEOPHYSICS

8 INDUSTRIAL WAY - D10

SALEM, NEW HAMPSHIRE 03079

TELEPHONE (603) 893-9944

FAX (603) 893-8313

June 19, 1998

File 98D22

Michelle Lapin, P.E.
Vice President
AKRF, Inc.
34 South Broadway
White Plains, NY 10601

RE: GPR Survey
Yonkers Downtown Waterfront
Yonkers, New York

Dear Ms. Lapin:

In this letter, we report the results of a ground penetrating radar (GPR) survey conducted by Hager-Richter Geoscience, Inc. at various locations at the Yonkers Downtown Waterfront site in Yonkers, New York for AKRF, Inc. (AKRF) in May and June 1998. The scope of the project and areas of interest were specified by AKRF. The geophysical survey is part of an environmental investigation by AKRF of the waterfront site funded by the New York State Department of Environmental Conservation.

Introduction

The Yonkers Downtown Waterfront site consists of several parcels of land located on the Hudson River near the Yonkers Recreational Pier. Figure 1 shows the general location of the site, and Figure 2 is a site sketch plan showing the individual parcels. Several of the parcels are paved parking lots, and some are vacant. According to information provided by AKRF, the site has a long history of commercial/industrial use, and structures of various sorts formerly occupied parcels currently vacant or used for parking.

Objectives

The objectives of the geophysical survey were to detect subsurface metal objects such as USTs, and drums at selected locations in several areas of interest specified by AKRF.

Areas of Interest

AKRF identified Parcels C, E, F, H, and I as the parcels of interest for this project and further specified areas of interest for the GPR survey within each parcel. Parcel C is an active commuter parking lot located near the train station and could only be accessed at night when the number of vehicles was minimal. Parcel E is landscaped and currently used as a sculpture garden known as Pierpoint Park. Parcel F is the parking area for the adjacent Scrimshaw House Condominium. Parcels H and I are vacant lots that contain visible construction debris fill.

AKRF conducted an electromagnetic induction terrain conductivity survey using a Geonics EM31 at each of the parcels of interest to detect areas of subsurface metal. The results of the EM31 survey were used by AKRF to focus the areas of interest for the GPR survey in the vicinity of EM anomalies indicative of subsurface metal at each parcel. All GPR survey locations were tied to the same grid established by AKRF for the EM31 survey.

The Survey

Jeffrey Reid, P.G. and Howard Quin, Ph.D. of Hager-Richter conducted the field operations. Hager-Richter personnel were on site on May 19-21, May 27-29, and June 7, 1998. The project was coordinated with Ms. Michelle Lapin, P.E. of AKRF, who specified the areas of interest and visited the site on the first two days of survey. Mr. Kevin Reilly of AKRF was on site during the GPR survey except on June 7. Mr. Reilly assisted with re-establishing the AKRF grids to which all GPR survey locations were referenced, and with the GPR field operations.

The GPR survey was conducted using a Geophysical Survey Systems SIR-2 fully digital GPR system with a 500 MHz antenna and a 50 nsec time window. A survey wheel attached to the antenna was used to record data at equal intervals.

Limitations of the Method

There are limitations of the GPR technique as used to detect and/or locate targets such as those of the objectives of this survey: (1) surface conditions, (2) electrical conductivity of the ground, (3) contrast of the electrical properties of the target and the surrounding soil, and (4) spacing of the traverses. Of these restrictions, only the last is controllable by us.

The condition of the ground surface can affect the quality of the GPR data and the depth of penetration of the GPR signal. Sites covered with snow piles, high grass, bushes, landscape structures, debris, obstacles, soil mounds, etc. limit the survey access and the coupling of the GPR antenna with the ground. In many cases, the GPR signal will not penetrate below concrete pavement, especially inside buildings, and a target may not be detectable. The GPR method also commonly does not provide useful data under canopies found at some facilities.

The electrical conductivity of the ground determines the attenuation of the GPR signals, and thereby limits the maximum depth of exploration. For example, the GPR signal does not penetrate clay-rich soils, and targets buried in clay might not be detected.

A definite contrast in the electrical conductivities of the surrounding ground and the target material is required to obtain a reflection of the GPR signal. If the contrast is too small then the reflection may be too weak to recognize, possibly due to deeply corroded metal in the target, the target can be missed.

Spacing of the traverses is limited by access at many sites, but where flexibility of traverse spacing is possible, the spacing is adjusted to the size of the target.

Results

Figures 3 - 6 are plans of the areas of interest showing the locations of GPR traverses and interpretation of the data. The GPR traverses were oriented in two mutually perpendicular directions in the accessible portions of the specified areas of interest. The traverses were spaced no more than 10 feet apart.

GPR signal penetration at the Yonkers Downtown Waterfront site was fair. The GPR records for most locations contain reflections for at least 30 nsec, indicating a depth of exploration of about 4 feet, using a handbook time to depth conversion for the travel time of the GPR signal of 7 nsec/foot for typical unsaturated soil and sandy fill. The GPR data indicate that all the GPR survey areas are underlain by fill, as one might expect in a long established waterfront commercial/industrial area.

GPR reflections initially interpreted as possibly due to USTs were detected in the GPR data only for Parcel F, and their locations were reported to AKRF as part of preliminary GPR survey results. However, according to information provided by AKRF, test excavations at those locations showed that USTs were not present. GPR reflections typical of USTs were not detected elsewhere, and we conclude that no UST with (a) electrical properties sufficiently contrasting with the surrounding soils to produce GPR reflections or (b) a capacity of 500 gallons or greater was detected in the accessible portions of the specified areas of interest within the effective depth of penetration of the GPR signal (approximately 4 feet).

Flat reflections are present in the GPR records for a few locations as noted in the figures. The flat reflections are judged not likely to be caused by USTs because the data in the cross direction do not support such an interpretation, and we infer that the flat reflectors might be construction debris.

Reflections typical of subsurface utilities are present in the GPR records for several locations, and the locations of possible utilities are noted on Figures 3-6. Because the GPR records for the Yonkers Downtown Waterfront site are generally characterized by the chaotic reflections typical of fill, the reflections from other utilities might be obscured. Thus, there may be additional utilities in the GPR survey area.

Scattered unidentified objects were detected on the basis of the GPR records. Their locations are noted on the figures. *Whether any of the objects is a drum cannot be determined on the basis of the GPR data alone.*

The results of the GPR survey in the specified area of interest for each parcel may be summarized as follows:

- Parcel C — No UST was detected. Several unidentified buried objects, a flat reflector inferred not to be a UST, and segments of possible subsurface utilities were detected.
- Parcel E — No UST was detected. In addition, several unidentified buried objects, a flat reflector inferred not to be a UST, and segments of possible subsurface utilities were detected.
- Parcel F — No UST was detected. Several unidentified buried objects and segments of possible subsurface utilities were detected.
- Parcel H — No UST was detected. Several unidentified buried objects were detected. Area of GPR survey entirely underlain by construction debris fill.
- Parcel I — No UST was detected. Several unidentified buried objects and segments of possible subsurface utilities were detected.

Limitations

This letter report was prepared for the exclusive use of AKRF, Inc. and the New York State Department of Environmental Conservation (Client). No other party shall be entitled to rely on this Report or any information, documents, records, data, interpretations, advice or opinions given to Client by Hager-Richter Geoscience, Inc. (H-R) in the performance of its work. The Report relates solely to the specific project for which H-R has been retained and shall not be used or relied upon by Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of H-R. Any unpermitted use by Client or any third party shall be at Client's or such third party's own risk and without any liability to H-R.

GPR Survey
Yonkers Downtown Waterfront
Yonkers, New York
File 98D22 June, 1998

HAGER-RICHTER
GEOSCIENCE, INC.

H-R has used reasonable care, skill, competence and judgment in the performance of its services for this project consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by H-R should be understood to be exploratory and interpretational in character and any results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

The detection of subsurface utilities and/or other subsurface objects was not an objective of this survey, and the survey was not designed to detect such. However, some utilities and/or other subsurface objects were detected and their locations are provided as a courtesy. Other utilities and/or other buried objects may be present and the Client or any third party shall not rely on this report for information on such.

Except as expressly provided in this limitations section, H-R makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.

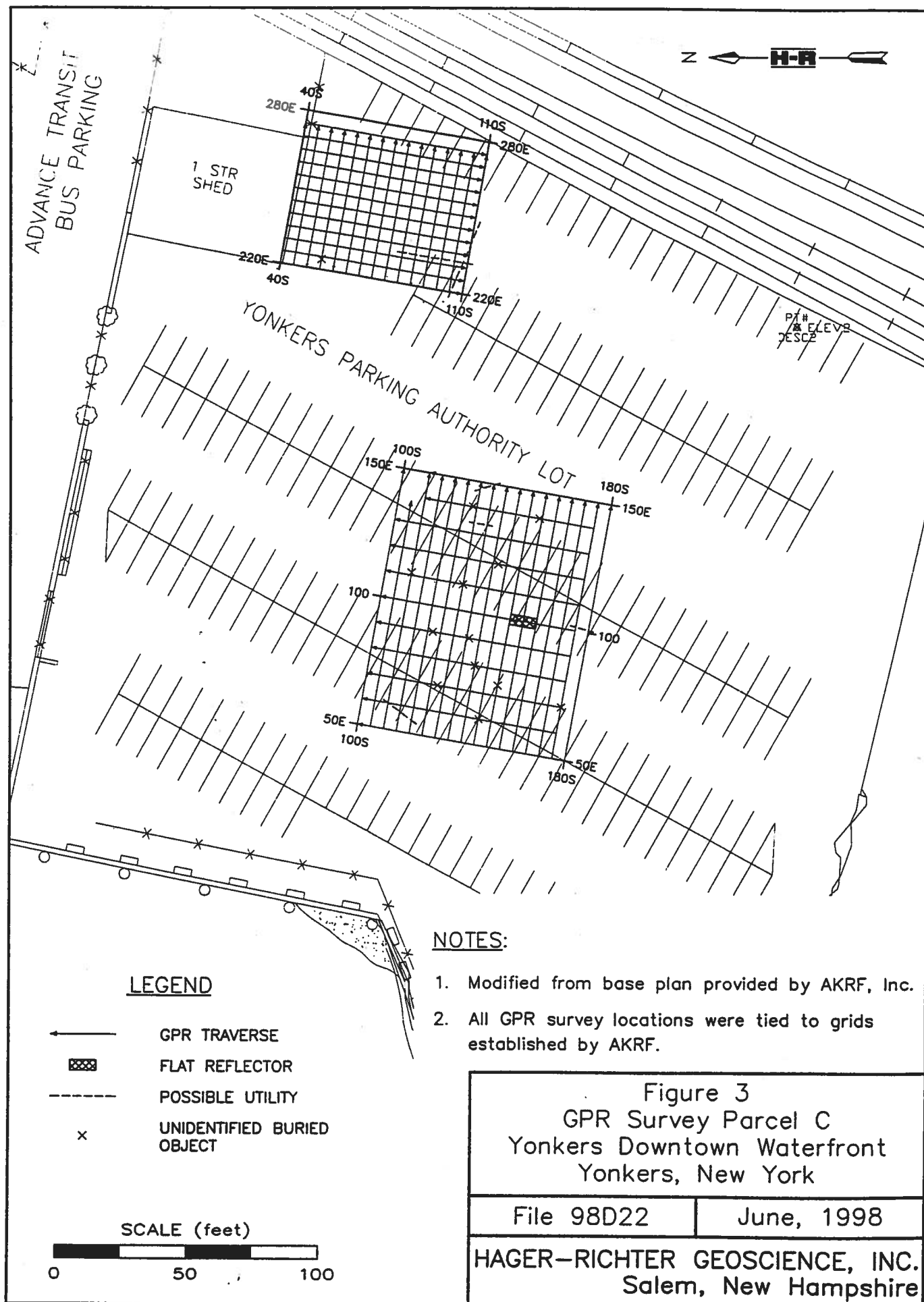
If you have any questions or comments on this letter report, please contact us at your convenience. It has been a pleasure to work with AKRF on this project. We look forward to working with you again in the future.

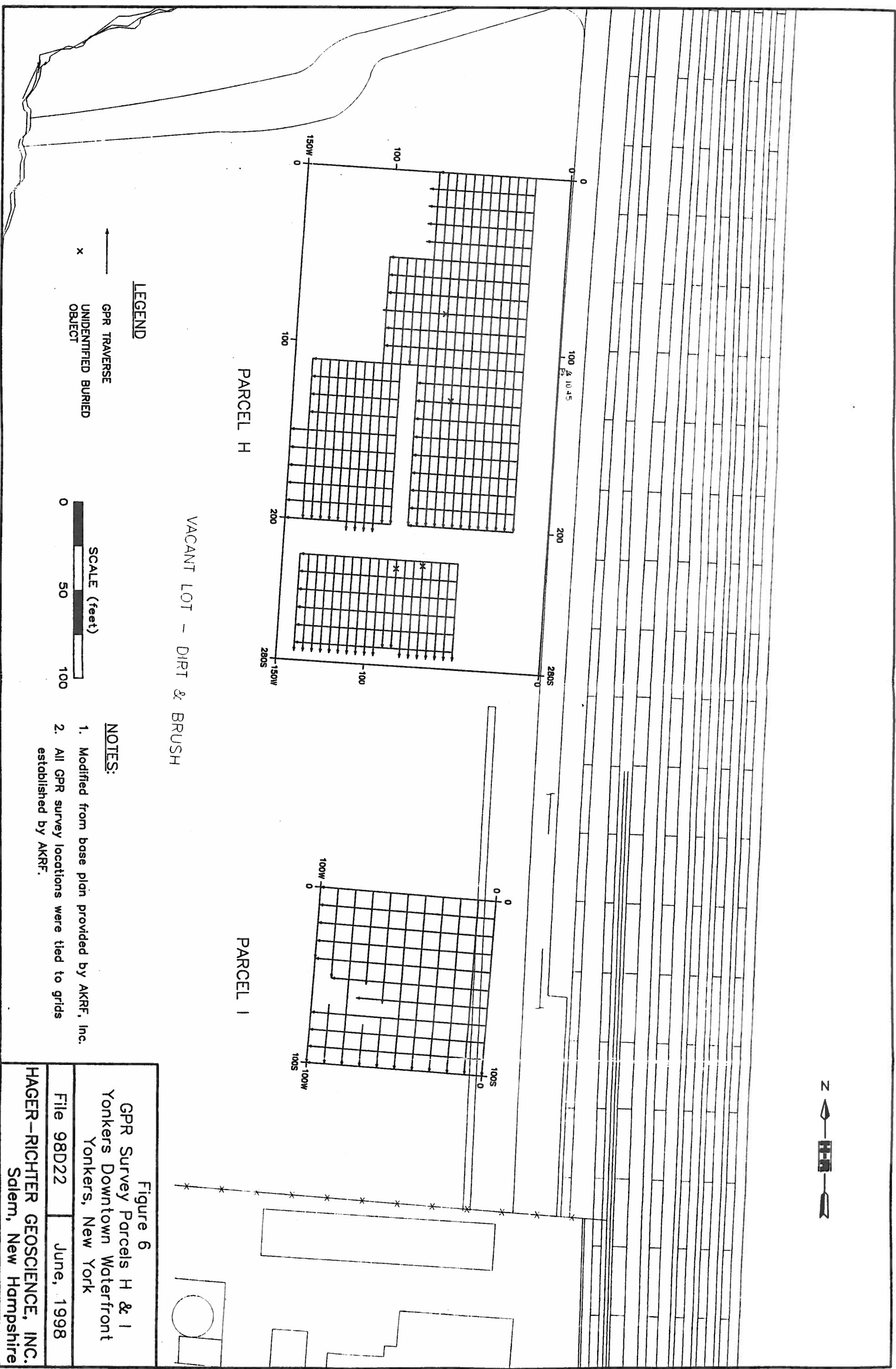
Sincerely yours,
HAGER-RICHTER GEOSCIENCE, INC.



Dorothy Richter
President

Attachments: Figures 1- 6





LEGEND

→ GPR TRAVERSE
x UNIDENTIFIED BURIED OBJECT

SCALE (feet)



NOTES:

1. Modified from base plan provided by AKRF, Inc.
2. All GPR survey locations were tied to grids established by AKRF.

Figure 6

GPR Survey Parcels H & I
Yonkers Downtown Waterfront
Yonkers, New York

File 98D22

June, 1998

HAGER-RICHTER GEOSCIENCE, INC.
Salem, New Hampshire

APPENDIX E

APPENDIX E
SOIL BORING LOGS / TEST PIT LOGS

PARCEL H

AKRF, INC
Environmental Consultants
34 South Broadway
White Plains, New York 10601
Phone (914) 948-7336 Fax (914) 949-7550

Log of Well MW-1H
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

7/10/98

0900

Sample Method: Split Spoon

Finished

7/10/98

1230

Borehole Diameter: 8 in.

Water Level: 14' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.

Recovery (in.)

Blow Counts

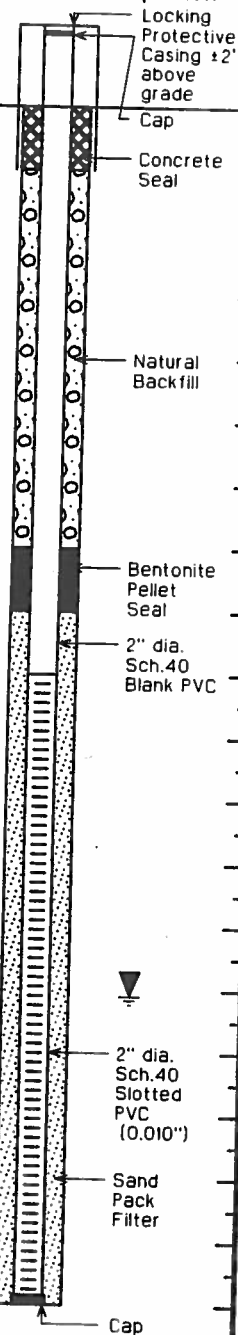
PID

Depth
(feet)

Graphic Log

Materials Description

Well Completion



Drilled through SAND and GRAVEL from 0 to 3' below grade.

Drilled through CONCRETE from 3' to 5' below grade.

Drilled through red BRICK from 7' to 8' below grade.

Drilled through miscellaneous FILL materials and voids to 19' below grade.

End of boring at 19 feet below grade.
No samples collected.

AKRF, INC
Environmental Consultants
34 South Broadway
White Plains, New York 10601
Phone (914) 949-7336 Fax (914) 949-7559

Log of Well MW-2H
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

7/10/98

1300

Sample Method: Split Spoon

Finished

7/10/98

1500

Borehole Diameter: 8 in.

Water Level: 13' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.

Recovery (in.)

Blow Counts

PID

Depth
(feet)

Graphic Log

Materials Description

Well Completion

Locking
Protective
Casing ±2'
above
grade

Cap

Concrete
Seal

Natural
Backfill

Bentonite
Pellet
Seal

2" dia.
Sch.40
Blank PVC

2" dia.
Sch.40
Slotted
PVC
(0.010")

Sand
Pack
Filter

Cap

Drilled through SAND and GRAVEL (FILL) from
0 to 4' below grade.

Drilled through red BRICK from 4' to 6.5' below
grade.

Drilled through miscellaneous FILL materials
from 6.5' to 13' below below grade.

Drilled through gray, clayey SILT, some Sand
to 19' below grade.

End of boring at 19 feet below grade.
No samples collected.

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP - 1H FILE No. 70004 DATE 6-15-98			
AKRF PERSONNEL Mohamed Ahmed WEATHER 60 F Cloudy		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu CAPACITY MODEL PC200LC REACH 20'			GROUND ELEV. 10' +/- TIME STARTED 0900		
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.		
—0—	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).						
—1—	Dark brown SAND, GRAVEL and miscellaneous FILL (Steel beams, Steel Pipes, Concrete, and Rubber), trace Silt.	M	-	ND			
—2—		D	-	ND			
—3—	Dark brown SAND, COBBLES and miscellaneous FILL (Wood, Concrete, and Steel Pipes), trace Silt (FILL).	D	-	ND			
—4—	Dark brown SAND and CONCRETE, some Gravel, trace Silt (FILL).	D	-	13.9	1		
—5—		M	-	ND			
—6—		M	-	ND			
—7—	Dark brown SAND and CONCRETE, some Gravel, trace Silt (FILL).	M	-	ND			
—8—		M	-	ND			
—9—		M	-	ND	2		
—10—							
—11—	End of test pit approximately 10 feet below grade.						
—12—							
—13—							
—14—							
REMARKS: 1 - Soil sample collected from approximately 4 feet below grade for laboratory analysis. 2 - Groundwater intercepted at approximately 9 feet below grade.							
TEST PIT PLAN 50'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
NORTH VOLUME = 925 Cu Yd						GROUNDWATER ELAPSED TIME TO READING (HRS.) 0	

TEST PIT FIELD LOG

AKRF, INC.
34 SOUTH BROADWAY
WHITE PLAINS, NEW YORK 10601

PROJECT
DESCRIPTION Yonkers Downtown Waterfront
LOCATION Yonkers, New York

TEST PIT No. TP - 2H
FILE No. 70004
DATE 6-15-98

AKRF PERSONNEL Mohamed Ahmed
WEATHER 60 F
Cloudy

EXCAVATION EQUIPMENT
CONTRACTOR Rusciano Excavating
OPERATOR Tony Rusciano
MAKE Komatsu
MODEL PC200LC
REACH 20'

GROUND ELEV. 11.5' +/-
TIME STARTED 1220

DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.
—0—	Grey, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).				
—1—	Dark brown SAND, GRAVEL and miscellaneous FILL (Steel Pipes, Red Bricks, Concrete and Wood), trace Silt.	M	-	ND	
—2—		M	-	ND	
—3—	Brown SAND and CONCRETE, trace Silt (FILL).	D	-	ND	
—4—		D	-	ND	
—5—	Dark brown SAND and CONCRETE, some Gravel, trace Silt (FILL).	M	-	ND	
—6—		M	-	ND	
—7—	Dark brown SAND and CONCRETE, some Gravel, trace Silt (FILL).	M	-	ND	
—8—		M	-	ND	
—9—		M	-	ND	1
—10—	End of test pit approximately 9 feet below grade.				
—11—					
—12—					
—13—					
—14—					

REMARKS:

1 - No groundwater intercepted. No soil sample sent for analysis.

TEST PIT PLAN	LEGEND:	PROPORTIONS USED	EXCAVATION EFFORT	GROUNDWATER
20'	BOULDER COUNT			
25'	CLASSIFICATION DESIGNATION	TRACE 0-10%	E—EASY	ELAPSED TIME TO READING (HRS.)
	6"-18" A	LITTLE 10-20%	M—MODERATE	0
	18"-36" B	SOME 20-35%	D—DIFFICULT	
	36" AND LARGER C			

NORTH
VOLUME = 166 Cu Yd

TEST PIT FIELD LOG

AKRF, INC.
34 SOUTH BROADWAY
WHITE PLAINS, NEW YORK 10601

PROJECT
DESCRIPTION Yonkers Downtown Waterfront
LOCATION Yonkers, New York

TEST PIT No. TP - 3H
FILE No. 70004
DATE 6-15-98

AKRF PERSONNEL Mohamed Ahmed
WEATHER 60 F
Cloudy

EXCAVATION EQUIPMENT
CONTRACTOR Rusciano Excavating
OPERATOR Tony Rusciano
MAKE Komatsu

MODEL PC200LC
REACH 20'

GROUND ELEV. 11' +/-
TIME STARTED 1400

DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No
—0—	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).				
—1—	Dark brown SAND, GRAVEL and miscellaneous FILL (Steel Pipes, an old light post and Concrete), trace Silt.	M	-	ND	1,2
—2—		D	-	ND	
—3—	Dark brown SAND and CONCRETE, some Gravel, trace Silt (FILL).	D	-	ND	
—4—		M	-	ND	
—5—		M	-	ND	
—6—		M	-	ND	
—7—	Dark brown SAND, some Gravel, trace Silt (FILL).	M	-	ND	
—8—		M	-	ND	3
—9—	End of test pit approximately 9 feet below grade.				
—10—					
—11—					
—12—					
—13—					
—14—					

REMARKS:

- 1 - Massive concrete blocks held together with steel reinforcement bars.
2 - No soil sample sent for analysis.
3 - Groundwater intercepted at approximately 8.0 feet below grade; groundwater sample obtained and sent for analysis.

TEST PIT PLAN	LEGEND:	PROPORTIONS USED	EXCAVATION EFFORT	GROUNDWATER
25'	BOULDER COUNT			
	CLASSIFICATION DESIGNATION	TRACE 0-10%	E—EASY	ELAPSED TIME TO READING (HRS.)
A NORTH	6"-18" A	LITTLE 10-20%	M—MODERATE	0
VOLUME = 208 Cu Yd	18"-36" B	SOME 20-35%	D—DIFFICULT	
	36" AND LARGER C			

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP - 7H FILE No. 70004 DATE 6-16-98			
AKRF PERSONNEL Mohamed Ahmed WEATHER 60 F Cloudy		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 10.5' +/- TIME STARTED 0900		
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.		
—0—	Light gray, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).						
—1—	Gray SAND and black ASH , trace Silt (FILL).	M	-	ND			
—2—		M	-	ND			
—3—	Light brown SAND and CONCRETE, some black Ash, trace Silt (FILL).	D	-	ND			
—4—		M	-	ND			
—5—		M	-	ND			
—6—		M	-	ND			
—7—	Brown SAND, some Gravel, trace Silt (FILL).	M	-	ND			
—8—		M	-	ND	1		
End of test pit approximately 8 feet below grade.							
—9—							
—10—							
—11—							
—12—							
—13—							
—14—							
REMARKS: 1 - No soil or groundwater samples were collected for laboratory analysis.							
TEST PIT PLAN 30'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
15' NORTH VOLUME = 133 Cu Yd				GROUNDWATER ELAPSED TIME TO READING (HRS.) 0			

TEST PIT FIELD LOG						
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT		TEST PIT No. TP - 8H		
		DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		FILE No. 70004 DATE 6-16-98		
AKRF PERSONNEL Mohamed Ahmed WEATHER 60 F Cloudy		EXCAVATION EQUIPMENT			GROUND ELEV. 8' +/-	
		CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			TIME STARTED 1045	
DEPTH	SOIL DESCRIPTION			EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID
0'	Light gray, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).					
1'	Brown SAND and SILT some Boulders (FILL).			M	-	ND
2'				M	5A	ND
3'				M	-	ND
4'				M	-	ND
5'				M	-	ND
6'	Brown SAND and SILT (FILL).			M	-	ND
7'	End of test pit approximately 8 feet below grade.			M	-	ND
8'				M	-	ND
9'						
10'						
11'						
12'						
13'						
14'						
REMARKS:						
1 - No soil sample collected for analysis.						
2 - Groundwater intercepted at approximately 6 feet below grade; groundwater sample obtained and sent for analysis.						
TEST PIT PLAN		LEGEND:		EXCAVATION EFFORT		GROUNDWATER
20'		BOULDER COUNT		PROPORTIONS USED		ELAPSED TIME TO READING (HRS.)
A NORTH VOLUME = 118 Cu Yd		CLASSIFICATION	DESIGNATION	TRACE 0-10%	E—EASY	0
		6"-18"	A	LITTLE 10-20%	M—MODERATE	
		18"-36"	B	SOME 20-35%	D—DIFFICULT	
		36" AND LARGER	C			

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP - 9H FILE No. 70004 DATE 6-16-98			
AKRF PERSONNEL Mohamed Ahmed WEATHER 60 F Cloudy		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 7 +/- TIME STARTED 1245		
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.		
0'	Light gray, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).						
1'	Gray SAND some cobbles, little Silt, little mica schist (FILL).	M	-	ND			
2'		M	-	ND			
3'		D	8 A	ND			
4'		M	4 A	ND	1		
5'		M	2 A	ND			
6'		M	4 A	ND	2		
7'		M	-	ND			
8'		M	-	ND			
9'		M	-	ND			
10'	End of test pit approximately 9 feet below grade.						
11'							
12'							
13'							
14'							
REMARKS: 1 - Soil sample collected from 4 feet below grade and submitted for analysis. 2 - Groundwater was intercepted at approximately 6 feet below grade; a sample was collected and submitted for analysis.							
TEST PIT PLAN 15'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
VOLUME = 75 Cu Yd		GROUNDWATER ELAPSED TIME TO READING (HRS.) 0					

TEST PIT FIELD LOG

AKRF, INC.
34 SOUTH BROADWAY
WHITE PLAINS, NEW YORK 10601

PROJECT

DESCRIPTION Yonkers Downtown Waterfront
LOCATION Yonkers, New York

TEST PIT No. TP - 10H
FILE No. 70004
DATE 6-16-98

AKRF PERSONNEL Mohamed Ahmed
WEATHER 60 F
Cloudy

EXCAVATION EQUIPMENT

CONTRACTOR Rusciano Excavating
OPERATOR Tony Rusciano
MAKE Komatsu
MODEL PC200LC
REACH 20'

GROUND ELEV. 10.5' +/-
TIME STARTED 1400

DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.
0'	Light grey, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).				
1'	Black SAND and SILT (FILL).	M	-	ND	
2'		M	3 A	ND	
3'		M	-	3.0	
4'	Black SAND and SILT, some miscellaneous FILL (Red Brick, Black Ash, and Plastic Wires).	M	-	ND	1
5'		M	-	ND	
6'		M	-	ND	
7'	Black SAND and SILT (FILL).	M	3 A	ND	
8'		M	-	ND	
9'	End of test pit approximately 8 feet below grade.				
10'					
11'					
12'					
13'					
14'					

REMARKS:

1 - Soil sample collected from approximately four feet below grade and submitted for analysis.

TEST PIT PLAN		LEGEND:		PROPORTIONS USED	EXCAVATION EFFORT	GROUNDWATER
25'	25'	BOULDER COUNT				
		CLASSIFICATION	DESIGNATION	TRACE 0-10%	E—EASY	ELAPSED TIME TO READING (HRS.)
		6"-18"	A	LITTLE 10-20%	M—MODERATE	0
		18"-36"	B	SOME 20-35%	D—DIFFICULT	
		36" AND LARGER	C			

A NORTH
VOLUME = 185 Cu Yd

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-10AH FILE No. 70004 DATE 10-28-98			
AKRF PERSONNEL Kevin Reilly WEATHER 65 F Overcast		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 10.5' +/- TIME STARTED 0845		
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.		
0'	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)						
1'	Dark brown SAND, GRAVEL and miscellaneous FILL (Red Brick and Concrete Block), trace Silt.	M	-	ND			
2'		M	-	ND			
3'	Red BRICK, some black Sand, little Gravel (FILL).	M	-	ND			
4'	Brown to black SAND, some Gravel, some Plastic Wiring (FILL).	M	-	ND	1		
5'		M	-	ND			
6'	Brown to black SAND and GRAVEL, some Silt (FILL).	M	-	ND			
7'		M		ND			
8'		M	-	ND			
9'		M	-	ND	2		
10'	End of test pit approximately 9 feet below grade						
11'							
12'							
13'							
14'							
REMARKS: 1 - Soil sample collected from approximately 4 feet below grade for laboratory analysis. 2 - Groundwater intercepted approximately 9 feet below grade. Groundwater sample collected and field filtered for laboratory analysis.							
TEST PIT PLAN 9'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
12' A NORTH VOLUME = 36Cu Yd				GROUNDWATER ELAPSED TIME TO READING (HRS.) 0			

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-10BH FILE No. 70004 DATE 1-27-99			
AKRF PERSONNEL Kevin Reilly WEATHER 45 F Sunny		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 10.5' +/- TIME STARTED 0845		
DEPTH	SOIL DESCRIPTION	XCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No		
—0—	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)						
—1—	Dark brown SAND, GRAVEL and miscellaneous FILL (Red Brick and Concrete Block), trace Silt.	M	-	ND			
—2—		M	-	ND			
—3—		M	-	ND			
—4—	Brown to black SAND and GRAVEL, some Silt (FILL).	M	-	ND	1		
—5—		M	-	ND			
—6—	Red BRICK, some black Sand, little Gravel (FILL).	M	-	ND			
—7—		M	-	ND			
—8—		M	-	ND			
—9—	End of test pit approximately 9 feet below grade	M	-	ND	2		
—10—							
—11—							
—12—							
—13—							
—14—							
REMARKS: 1 - Soil sample collected from approximately 4 feet below grade for laboratory analysis. 2 - Groundwater intercepted approximately 9 feet below grade, no groundwater sample collected.							
TEST PIT PLAN 12'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
NORTH VOLUME = 48 Cu Yd				GROUNDWATER ELAPSED TIME TO READING (HRS.) 0			

TEST PIT FIELD LOG					
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-11H FILE No. 70004 DATE 10-28-98	
AKRF PERSONNEL Kevin Reilly WEATHER 65 F Overcast		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'		GROUND ELEV. 10.5' +/- TIME STARTED 0915	
DEPTH	SOIL DESCRIPTION	XCAVATIO EFFORT	ULDER COU ANTITY CLA	PID	REMARK No.
—0—	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)				
—1—	Brown SAND and SILT, some Gravel (FILL).	M	-	ND	
—2—		M	-	ND	
—3—	Brown SAND and miscellaneous FILL (Wood, Metal Piping, and Plastic Wiring).	M	-	ND	1
—4—	Brown to black SAND some Gravel, some Plastic Wiring (FILL). One 55-Gallon Drum, some No. 2 fuel oil.	M	-	ND	2
—5—		M	-	ND	
—6—		M	-	ND	
—7—	Brown to black SAND and SILT, miscellaneous FILL (Concrete Block, Metal Piping), little black Ash.	M	-	ND	
—8—		M	-	ND	
—9—		M	-	ND	
—10—		M	-	ND	
—11—		M	-	ND	3
—12—	End of test pit approximately 11.5 feet below grade				
—13—					
—14—					
REMARKS: 1 - Soil sample collected from approximately four feet below grade for laboratory analysis. 2 - Product from the 55-Gallon Drum sampled for laboratory analysis. 3 - Groundwater intercepted approximately 11.5 feet below grade. Groundwater sample collected and field filtered for laboratory analysis.					
TEST PIT PLAN 10' 30' NORTH VOLUME = 128Cu Yd		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%	
		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT		GROUNDWATER ELAPSED TIME TO 0 READING (HRS.)	

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-11AH FILE No. 70004 DATE 1-27-99			
AKRF PERSONNEL Kevin Reilly WEATHER 45 F Sunny		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 10.5' +/- TIME STARTED 1000		
DEPTH	SOIL DESCRIPTION	XCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.		
0'	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)						
1'	Brown SAND and SILT, some Gravel (FILL).	M	-	ND			
2'		M	-	ND			
3'		M	-	ND	1		
4'		M	-	ND			
5'		M	-	ND			
6'		M	-	ND			
7'	Brown to black SAND and Plastic MATS (FILL).	M	-	ND	2		
8'		M	-	ND			
9'		M	-	ND			
10'		M	-	ND	3		
11'	End of test pit approximately 10 feet below grade						
12'							
13'							
14'							
REMARKS: 1 - Soil sample collected from approximately 3 feet below grade for laboratory analysis. 2 - Soil sample collected from approximately 7 feet below grade for laboratory analysis. 3 - Groundwater intercepted approximately 10 feet below grade, no groundwater sample collected.							
TEST PIT PLAN 15'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
NORTH VOLUME = 83 Cu Yd				GROUNDWATER ELAPSED TIME TO READING (HRS.) 0			

TEST PIT PLAN		LEGEND:	PROPORTIONS USED	EXCAVATION EFFORT	GROUNDWATER
20'	10'				
A NORTH VOLUME = 89 Cu Yd					

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-13H FILE No. 70004 DATE 10-28-98			
AKRF PERSONNEL Kevin Reilly WEATHER 65 F Overcast		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 10.5' +/- TIME STARTED 1030		
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.		
0'	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)						
1'	Light brown SAND and CONCRETE BLOCK little Silt (FILL).	M	-	ND			
2'		M	-	ND			
3'		M	-	ND			
4'		M	-	ND			
5'	Brown SAND and SILT, miscellaneous FILL (Red Brick, Plastic Wiring, Rope).	M	-	ND	1,2		
6'		M	-	ND			
7'		M	-	ND			
8'	Brown SAND and SILT, some Concrete Block, some Red Bri	M	-	ND			
9'		M	-	ND	3		
10'		M	-	ND			
End of test pit approximately 10 feet below grade							
11'							
12'							
13'							
14'							
REMARKS: 1 - Soil sample collected from approximately five feet below grade for laboratory analysis. 2 - Bottle of "Pro-Tek Cleaning Solvent" present in excavation. 3 - Groundwater intercepted approximately 9 feet below grade. Groundwater sample collected and field filtered for laboratory analysis.							
TEST PIT PLAN 9'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
NORTH VOLUME = 60 Cu Yd				GROUNDWATER ELAPSED TIME TO READING (HRS) 0			

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10801		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-13AH FILE No. 70004 DATE 1-27-99			
AKRF PERSONNEL Kevin Reilly WEATHER 45 F Sunny		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 10.5' +/- TIME STARTED 1130		
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No		
0'	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)						
1'	Light brown SAND, SILT and CONCRETE BLOCK, little Silt (FILL).	M	-	ND			
2'		M	-	ND			
3'		M	-	ND			
4'		M	-	ND			
5'	Plastic WIRING and brown SAND, some Silt (FILL).	M	-	ND	1		
6'		M	-	ND			
7'		M	-	ND			
8'	Brown SAND and SILT, some Concrete Block (FILL).	M	-	ND	2		
9'		M	-	ND			
10'		M	-	ND	3		
End of test pit approximately 10 feet below grade.							
11'							
12'							
13'							
14'							
REMARKS: 1 - Soil sample collected from approximately 5 feet below grade for laboratory analysis. 2 - Soil sample collected from approximately 8 feet below grade for laboratory analysis. 3 - Groundwater intercepted approximately 10 feet below grade., no groundwater sample collected.							
TEST PIT PLAN 15'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
NORTH VOLUME = 91 Cu Yd				GROUNDWATER ELAPSED TIME TO READING (HRS.) 0			

TEST PIT FIELD LOG					
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-14H FILE No. 70004 DATE 10-28-98	
AKRF PERSONNEL Kevin Reilly WEATHER 65 F Overcast		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 10.5' +/- TIME STARTED 1245
DEPTH	SOIL DESCRIPTION	XCAVATIO EFFORT	ULDER COU ANTITY CLA	PID	REMARK No.
—0—	Brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)				
—1—	Brown SAND and SILT (FILL).	M	-	ND	
—2—		M	-	ND	
—3—	Brown SAND and black ASH, some Gravel, miscellaneous Fill (Plastic Wires, Rope).	M	-	ND	
—4—	Brown SAND and SILT, some Gravel, miscellaneous Fill (red and yellow Brick, Wood).	M	-	ND	1
—5—		M	-	ND	
—6—	Red BRICK, some Sand, trace Silt (FILL).	M	-	ND	
—7—		M	-	ND	
—8—		M	-	ND	2
	End of test pit approximately 8 feet below grade				
—9—					
—10—					
—11—					
—12—					
—13—					
—14—					
REMARKS: 1 - Soil sample collected from approximately 4 feet below grade for laboratory analysis. 2 - No groundwater intercepted.					
TEST PIT PLAN 10' 20' NORTH VOLUME = 60 Cu Yd		LEGEND: <u>BOULDER COUNT</u> CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		<u>PROPORTIONS USED</u> TRACE 0-10% LITTLE 10-20% SOME 20-35%	
		<u>EXCAVATION EFFORT</u> E—EASY M—MODERATE D—DIFFICULT		<u>GROUNDWATER</u> ELAPSED TIME TO 0 READING (HRS.)	

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-15H FILE No. 70004 DATE 10-28-98			
AKRF PERSONNEL Kevin Reilly WEATHER 65 F Overcast		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu CAPACITY			GROUND ELEV. 9.5' +/- TIME STARTED 1330		
DEPTH	SOIL DESCRIPTION			EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.
—0—	Brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)						
—1—	Light brown SAND and SILT some Gravel, Concrete Block (FILL).			M		ND	
—2—				M		ND	
—3—				M		ND	
—4—				M		ND	
—5—	Light grey brown SAND and SILT little Gravel, Concrete Block (FILL).			M		ND	1
—6—				M		ND	
—7—				M		ND	
—8—				M		ND	
—9—				M		ND	2
—10—	End of test pit approximately 10 feet below grade			M		ND	
—11—							
—12—							
—13—							
—14—							
REMARKS: 1 - Soil sample collected from approximately 5 feet below grade for laboratory analysis. 2 - Groundwater encountered at approximately 9 feet below grade, no groundwater sample collected.							
TEST PIT PLAN 10'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
20' NORTH VOLUME = 74 Cu Yd						GROUNDWATER ELAPSED TIME TO READING (HRS.) 0	

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10801		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-16H FILE No. 70004 DATE 10-28-98			
AKRF PERSONNEL Kevin Reilly WEATHER 65 F Overcast		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 10.5' +/- TIME STARTED 1400		
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.		
--0--	Brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)						
--1--		M		ND			
--2--	Brown SAND and GRAVEL, some Silt, Concrete Block (FILL).	M		ND			
--3--		M		ND			
--4--		M		ND			
--5--		M		ND	1		
--6--	Brown SAND and GRAVEL, some Silt, massive Concrete Block (FILL).	M		ND			
--7--		M		ND			
--8--		M		ND	2		
--9--		M		ND			
--10--	End of test pit approximately 8.5 feet below grade						
--11--							
--12--							
--13--							
--14--							
REMARKS: 1 - Soil sample collected from approximately 5 feet below grade for laboratory analysis. 2 - Groundwater encountered at approximately 8.5 feet below grade; no groundwater sample collected.							
TEST PIT PLAN 15'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT	
GROUNDWATER ELAPSED TIME TO READING (HRS.) 0							
VOLUME = 71Cu Yd							

TEST PIT FIELD LOG

AKRF, INC.
34 SOUTH BROADWAY
WHITE PLAINS, NEW YORK 10601

PROJECT

DESCRIPTION Yonkers Downtown Waterfront
LOCATION Yonkers, New York

TEST PIT No. TP-17H
FILE No. 70004
DATE 10-28-98

AKRF PERSONNEL Kevin Reilly
WEATHER 65 F
Overcast

EXCAVATION EQUIPMENT
CONTRACTOR Rusciano Excavating
OPERATOR Tony Rusciano
MAKE Komatsu

MODEL PC200LC
REACH 20'

GROUND ELEV. 11' +/-
TIME STARTED 1430

DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.
—0—	Brown SAND and GRAVEL, some Silt (TOPSOIL)				
—1—	Gray brown SAND and SILT, some Concrete Block (FILL).	M		ND	
—2—		M		ND	
—3—	Gray brown SAND and CONCRETE BLOCK (FILL).	M		ND	1
—4—		M		ND	
—5—		M		ND	
—6—	Gray brown SAND and CONCRETE BLOCK (FILL).	M		ND	
—7—		M		ND	
—8—		M		ND	2
—9—	End of test pit approximately 8.5 feet below grade				
—10—					
—11—					
—12—					
—13—					
—14—					

REMARKS:

- 1 - Soil sample collected from approximately 3 feet below grade for laboratory analysis.
2 - No groundwater encountered; no groundwater sample collected.

TEST PIT PLAN		LEGEND:		PROPORTIONS USED	EXCAVATION EFFORT	GROUNDWATER
10'		BOULDER COUNT				
20'		CLASSIFICATION	DESIGNATION	TRACE 0-10%	E—EASY	ELAPSED
A NORTH VOLUME = 63Cu Yd		6"-18"	A	LITTLE 10-20%	M—MODERATE	TIME TO
		18"-36"	B	SOME 20-35%	D—DIFFICULT	READING (HRS.)
		36" AND LARGER	C			0

TEST PIT FIELD LOG					
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP-18H FILE No. 70004 DATE 1-27-99	
AKRF PERSONNEL Kevin Reilly WEATHER 45 F Sunny		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'		GROUND ELEV. 8.5' +/- TIME STARTED 1230	
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.
0	Brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL)				
1	Massive CONCRETE BLOCK. Offset test pit 30 feet north.	D		ND	
2	Gray brown SAND and SILT, little Gravel, Concrete Block (FILL).	M		ND	
3		M		ND	
4		M		ND	
5	Brown SAND and SILT, some Gravel, Concrete Block (FILL).	M		ND	1
6		M		ND	
7		M		ND	
8		M		ND	
9		M		ND	2
10	End of test pit approximately 9 feet below grade				
11					
12					
13					
14					
REMARKS: 1 - Soil sample collected from approximately 5 feet below grade for laboratory analysis. 2 - Groundwater encountered at approximately 9 feet below grade, no groundwater sample collected.					
TEST PIT PLAN 10' 20' NORTH VOLUME = 66 Cu Yd		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%	
EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT		GROUNDWATER ELAPSED TIME TO READING (HRS.) 0			

TEST PIT FIELD LOG					
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP - 19H FILE No. 70004 DATE 1-27-99	
AKRF PERSONNEL Mohamed Ahmed WEATHER 45 F Sunny		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'		GROUND ELEV. 10.3' +/- TIME STARTED 1400	
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.
--0--	Light brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).				
--1--	Dark brown SAND, GRAVEL and miscellaneous FILL (Metal Sheets and Concrete), trace Silt.	M	-	ND	
--2--		D	-	ND	
--3--	Dark brown SAND and CONCRETE, some Gravel, trace Silt (FILL).	D	-	ND	1
--4--		M	-	ND	
--5--		M	-	ND	
--6--		M	-	ND	
--7--	Dark brown SAND, some Gravel, trace Silt (FILL).	M	-	ND	
--8--		M	-	ND	2
--9--		M	-	ND	
--10--	End of test pit approximately 9 feet below grade.				
--11--					
--12--					
--13--					
--14--					
REMARKS: 1 - Soil sample collected from approximately 3 feet below grade for laboratory analysis. 2 - Groundwater intercepted at approximately 8.0 feet below grade, no groundwater sample collected.					
TEST PIT PLAN 15'		LEGEND: BOULDER COUNT CLASSIFICATION DESIGNATION 6"-18" A 18"-36" B 36" AND LARGER C		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%	
EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT		GROUNDWATER ELAPSED TIME TO READING (HRS.) 0			
VOLUME = 75 Cu Yd					

PARCEL I

AKRF, INC
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34 South Broadway
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Log of Well MW-II
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

7/10/98

1530

Sample Method: Split Spoon

Finished

7/10/98

1730

Borehole Diameter: 8 in.

Water Level: 6.4' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description	Well Completion
				1			Locking Protective Casing ±2' above grade
				2			Cap
				3			Concrete Seal
				4			Natural Backfill
				5			Bentonite Pellet Seal
				6			2" dia. Sch.40 Blank PVC
				7			
				8			
				9			
				10			2" dia. Sch.40 Slotted PVC (0.010")
				11			
				12			
				13			
				14			
				15			Sand Pack Filter
				16			
				17			Cap
				18			
				19			
				20			

Drilled through SAND and GRAVEL (FILL) from 0 to 6.5' below grade.

Drilled through dark gray, clayey SILT, some Sand to 15' below grade.

End of boring at 15 feet below grade.
No samples collected.

AKRF, INC
Environmental Consultants
34 South Broadway
White Plains, New York 10601
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Log of Well MW-2I
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

7/11/98

0700

Sample Method: Split Spoon

Finished

7/11/98

1000

Borehole Diameter: 8 in.

Water Level: 10' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description	Well Completion
				1		Drilled through SAND and GRAVEL (FILL) from 0 to 10' below grade.	Locking Protective Casing 12' above grade
				2			Cap
				3			Concrete Seal
				4			
				5			Natural Backfill
				6			
				7			Bentonite Pellet Seal
				8			2" dia. Sch. 40 Blank PVC
				9			
				10			
				11		Drilled through dark gray, clayey SILT, some Sand to 18' below grade.	▼
				12			
				13			2" dia. Sch. 40 Slotted PVC (0.010")
				14			
				15			Sand Pack Filter
				16			
				17			
				18			Cap
				19		End of boring at 18 feet below grade. No samples collected.	
				20			

TEST PIT FIELD LOG							
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601		PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York		TEST PIT No. TP - 4H FILE No. 70004 DATE 6-15-98			
AKRF PERSONNEL Mohamed Ahmed WEATHER 60 F Cloudy		EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'			GROUND ELEV. 8.5' +/- TIME STARTED 1530		
DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.		
—0—	Brown, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).				1		
—1—	Dark brown SAND, and GRAVEL, trace Silt (FILL).	M	-	ND			
—2—		M	-	ND			
—3—	CONCRETE BLOCK FOUNDATION and SAND, little Gravel, trace Silt (FILL).	D	-	ND			
—4—		M	-	ND			
—5—	Dark brown SAND and black ASH, some Gravel, trace Silt (FILL).	M	-	ND	2		
—6—	Yellow/brown SAND and GRAVEL, trace Silt (FILL).	M	-	ND			
—7—		M	-	ND			
—8—		M	-	ND			
	End of test pit approximately 8 feet below grade.				3		
—9—							
—10—							
—11—							
—12—							
—13—							
—14—							
REMARKS:							
1 - Test pit located on Parcel I (Mislabled H). 2 - Soil sample collected from approximately 5 feet below grade for laboratory analysis. 3 - Groundwater intercepted at approximately 8 feet below grade; sample collected and sent for analysis.							
TEST PIT PLAN 15'		LEGEND:		EXCAVATION EFFORT		GROUNDWATER	
10' NORTH VOLUME = 44 Cu Yd		BOULDER COUNT		PROPORTIONS USED		ELAPSED TIME TO READING (HRS.)	
		CLASSIFICATION	DESIGNATION	TRACE 0-10%	E—EASY	0	
		6"-18"	A	LITTLE 10-20%	M—MODERATE		
		18"-36"	B	SOME 20-35%	D—DIFFICULT		
		36" AND LARGER	C				

TEST PIT FIELD LOG

AKRF, INC.
34 SOUTH BROADWAY
WHITE PLAINS, NEW YORK 10601

PROJECT
DESCRIPTION Yonkers Downtown Waterfront
LOCATION Yonkers, New York

TEST PIT No. TP - 5H
FILE No. 70004
DATE 6-15-98

AKRF PERSONNEL Mohamed Ahmed
WEATHER 60 F
Cloudy

EXCAVATION EQUIPMENT
CONTRACTOR Rusciano Excavating
OPERATOR Tony Rusciano
MAKE Komatsu
MODEL PC200LC
REACH 20'

GROUND ELEV. 8' +/-
TIME STARTED 1630

DEPTH	SOIL DESCRIPTION	EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	P/D	REMARK No.
0'	Gray, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL).				1
1'	Dark brown SAND and SILT, some miscellaneous FILL (Steel Bars and Concrete).	M	-	ND	
2'		M	-	ND	
3'	Brown SAND and SILT, some Coal Ash (FILL).	M	-	ND	
4'		M	-	ND	
5'	Dark brown SAND and SILT, trace Gravel (FILL).	M	-	ND	
6'		M	-	ND	
7'		M	-	ND	
8'		M	-	ND	
9'		M	-	ND	2
10'	End of test pit approximately 9 feet below grade.				
11'					
12'					
13'					
14'					

REMARKS:

- 1 - Test pit located on Parcel I (Misabled H).
2 - Groundwater intercepted at approximately 8.5 feet below grade; no soil or groundwater samples sent for analysis.

TEST PIT PLAN	LEGEND:	PROPORTIONS USED	EXCAVATION EFFORT	GROUNDWATER
10'	BOULDER COUNT			
15'	CLASSIFICATION DESIGNATION	TRACE 0-10%	E—EASY	ELAPSED TIME TO READING (HRS.)
	6"-18" A	LITTLE 10-20%	M—MODERATE	0
	18"-36" B	SOME 20-35%	D—DIFFICULT	
	36" AND LARGER C			
A NORTH VOLUME = 45 Cu Yd				

TEST PIT FIELD LOG																			
AKRF, INC. 34 SOUTH BROADWAY WHITE PLAINS, NEW YORK 10601			PROJECT DESCRIPTION Yonkers Downtown Waterfront LOCATION Yonkers, New York			TEST PIT No. TP - 6H FILE No. 70004 DATE 6-15-98													
AKRF PERSONNEL Mohamed Ahmed WEATHER 60 F Cloudy			EXCAVATION EQUIPMENT CONTRACTOR Rusciano Excavating OPERATOR Tony Rusciano MAKE Komatsu MODEL PC200LC REACH 20'				GROUND ELEV. 8.5' +/- TIME STARTED 1720												
DEPTH	SOIL DESCRIPTION					EXCAVATION EFFORT	BOULDER COUNT QUANTITY CLASS	PID	REMARK No.										
0'	Grey, fine to coarse SAND and GRAVEL, some Silt (TOPSOIL). Dark brown SAND, GRAVEL and miscellaneous FILL (Steel bars and large Concrete blocks), trace Silt. Brown SAND, and CONCRETE, trace Silt (FILL). Dark brown SAND and CONCRETE, some Gravel, trace Silt (FILL).								1										
1'						M	-	ND											
2'						D	-	ND											
3'						M	-	ND											
4'						M	-	ND											
5'						M	-	ND											
6'						M	-	ND											
7'						M	-	ND											
8'	End of test pit approximately 8 feet below grade.					M	-	ND	2										
9'																			
10'																			
11'																			
12'																			
13'																			
14'																			
REMARKS: 1 - Test pit located on Parcel I (Mislabeled H). 2 - No groundwater intercepted; no soil sent for analysis.																			
TEST PIT PLAN 30' 15' NORTH VOLUME = 133 Cu Yd		LEGEND: <table style="width:100%; border: none;"> <tr> <th colspan="2" style="text-align: center;">BOULDER COUNT</th> </tr> <tr> <td style="text-align: center;">CLASSIFICATION</td> <td style="text-align: center;">DESIGNATION</td> </tr> <tr> <td style="text-align: center;">6"-18"</td> <td style="text-align: center;">A</td> </tr> <tr> <td style="text-align: center;">18"-36"</td> <td style="text-align: center;">B</td> </tr> <tr> <td style="text-align: center;">36" AND LARGER</td> <td style="text-align: center;">C</td> </tr> </table>		BOULDER COUNT		CLASSIFICATION	DESIGNATION	6"-18"	A	18"-36"	B	36" AND LARGER	C	PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35%		EXCAVATION EFFORT E—EASY M—MODERATE D—DIFFICULT		GROUNDWATER ELAPSED TIME TO READING (HRS.) 0	
BOULDER COUNT																			
CLASSIFICATION	DESIGNATION																		
6"-18"	A																		
18"-36"	B																		
36" AND LARGER	C																		

PARCEL C

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Log of Boring B-1C
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

10/29/98

1435

Sample Method: Split Spoon

Finished

10/29/98

1445

Borehole Diameter: 8 in.

Water Level: Not Encountered

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description	Moisture				
				1		8" ASPHALT PAVEMENT					
S-1	17"	43 60 40 41	ND	2		Very dense, brown/gray SAND and GRAVEL.	Dry				
S-2	2"	100/6"	ND	3		Very dense, black SAND and fine GRAVEL.	Dry				
				4		Drilled through Concrete from 3.5 to 4.5 feet below grade.					
S-3*	4"	9 9 30 30	ND	5		Dense, brown SAND and fine GRAVEL, some Schist.	Dry				
				6							
				7							
				8		Refusal at 7 feet below grade.					
				9		*Sample sent for laboratory analysis.					
				10		ND = None Detected					
				11							
				12							
				13							

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Log of Well MW-2C
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

10/29/98

1500

Sample Method: Split Spoon

Finished

10/29/98

1730

Borehole Diameter: 8 in.

Water Level: 7.5' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.

Recovery (in.)

Blow Counts

PTD

Depth
(feet)

Graphic Log

Materials Description

Well Completion

8" ASPHALT PAVEMENT

SAND and GRAVEL noted on auger flights.

Drilled through Concrete from 3 to 4 feet below grade.

Brown to black SAND and GRAVEL noted on auger flights.

Brown SAND and SILT noted on auger flights.

End of boring at 14 feet below grade.

No samples collected.

Locking
Protective
Casing
flush with
grade

Cap

Concrete
Seal

Natural
Backfill

Bentonite
Pellet
Seal

2" dia.
Sch.40
Blank PVC

2" dia.
Sch.40
Slotted
PVC
(0.010")

Sand
Pack
Filter

Cap

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Log of Boring B-3C
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

10/30/98

0700

Sample Method: Split Spoon

Finished

10/30/98

0830

Borehole Diameter: 8 in.

Water Level: Not Encountered

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.

Recovery (in.)

Blow Counts

PID

Depth
(feet)

Graphic Log

Materials Description

8" ASPHALT PAVEMENT

Drilled through Concrete to 4.5 feet below
grade.

Refusal at 4.5 feet below grade.

No samples collected.

AKRF, INC
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34 South Broadway
White Plains, New York 10601
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Log of Well MW-4C
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

10/30/98

0845

Sample Method: Split Spoon

Finished

10/30/98

1045

Borehole Diameter: 8 in.

Water Level: 5.5' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description	Well Completion
						6" ASPHALT PAVEMENT	Locking Protective Casing flush with grade
S-1	2"	50 50 50 40	ND	1		Very dense GRAVEL.	Cap
S-2	0	100/6"	ND	2		No recovery - Drilled through GRAVEL.	Concrete Seal
				3			Bentonite Pellet Seal
S-3*	13"	15 12 12 18	ND	4			2" dia. Sch.40 Blank PVC
				5		Medium dense, dark brown SAND and GRAVEL, little Silt.	
				6			
S-4	7"	65 42 32 28	ND	7		Very dense, light to dark brown SAND and SILT, little fine Gravel.	
				8			
S-5	9"	40 38 52 19	ND	9		Very dense, black SILT, trace fine Gravel, Sand.	2" dia. Sch.40 Slotted PVC (0.010")
				10			Sand Pack Filter
				11			
				12		End of boring at 11 feet below grade.	Cap
				13		*Sample sent for laboratory analysis.	
						ND = None Detected	

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Log of Boring B-5C
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

10/30/98

1100

Sample Method: Split Spoon

Finished

10/30/98

1200

Borehole Diameter: 8 in.

Water Level: 5' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description	Moisture	Water Table		
				1		24" ASPHALT PAVEMENT				
S-1*	4"	20 32 33 25	ND	2						
				3		Very dense, black SAND and fine GRAVEL.	Dry			
S-2	14"	13 12 7 12	ND	4		Top 10": Brown SAND and fine GRAVEL.	Dry			
				5		Bottom 4": Black SAND and GRAVEL.	Wet			
S-3	11"	14 14 24 50	ND	6		Top 6": Black SAND and GRAVEL.	Wet			
				7		Bottom 5": Brown GRAVEL.				
				8						
				9		Refusal at 8 feet below grade.				
				10		*Sample sent for laboratory analysis.				
				11		ND = None Detected				
				12		Slight petroleum odor noted on the water table (5' below grade).				
				13						

AKRF, INC
Environmental Consultants
34 South Broadway
White Plains, New York 10601
Phone (914) 949-7336 Fax (914) 949-7559

Log of Boring B-6C
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

10/30/98

1200

Sample Method: Split Spoon

Finished

10/30/98

1300

Borehole Diameter: 8 in.

Water Level: 5' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description	Moisture	Water Table			
				1		24" ASPHALT PAVEMENT					
				2							
				3		Drilled through Concrete from 2' to 4' below grade.					
S-1*	18"	24 8 7 12	ND	4		Top 12": Brown SAND and GRAVEL, some Silt.	Dry				
				5		Bottom 6": Black SAND and SILT.	Wet				
S-2	2"	60 100/6"	ND	6		Very dense black SAND and fine GRAVEL.	Wet				
				7		Refusal at 7 feet below grade.					
				8		*Sample sent for laboratory analysis.					
				9		ND = None Detected					
				10							
				11							
				12							
				13							

AKRF, INC
Environmental Consultants
34 South Broadway
White Plains, New York 10601
Phone (914) 949-7336 Fax (914) 949-7559

Log of Boring B-7C
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drill Method: 4-1/4" Hollow Stem Auger

Sample Method: Split Spoon

Borehole Diameter: 8 in.

Water Level: 7' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Drilling

Date

Time

Started

10/30/98

1300

Finished

10/30/98

1400

Sample No.

Recovery (in.)

Blow Counts

PID

Depth
(feet)

Graphic Log

Materials Description

Moisture

Water Table

12" ASPHALT PAVEMENT

S-1

2"

60
52
52
58

ND

1

2

Very dense, brown to black coarse SAND and fine GRAVEL.

Dry

S-2

10"

65
65
50
50

ND

3

4

Very dense, black SAND and SILT, some fine Gravel.

Dry

S-3

12"

50
100

ND

5

6

Very dense, brown to black SAND and SILT, some fine Gravel.

Dry

S-4*

12"

38
100

2.3

6

7

Dense, black SAND and SILT. (Slight petroleum odor noted.)

Dry

S-5

18"

22
32
34
37

ND

8

9

Very dense, brown SILT, trace fine Gravel.

Wet

End of boring at 9 feet below grade.

*Sample sent for laboratory analysis.

ND = None Detected

Slight petroleum odor noted on the water table (7' below grade).

10

11

12

13

AKRF, INC
Environmental Consultants
34 South Broadway
White Plains, New York 10601
Phone (914) 948-7336 Fax (914) 948-7559

Log of Boring B-8C
Yonkers Downtown Waterfront
Yonkers, New York
City of Yonkers

Sheet 1 of 1

Job Number: 70004

GS Elevation:

Driller: Envirotech Drilling, Inc.

Drilling

Date

Time

Drill Method: 4-1/4" Hollow Stem Auger

Started

10/30/98

1415

Sample Method: Split Spoon

Finished

10/30/98






1530

Borehole Diameter: 8 in.

Water Level: 7' below grade

Logged By: K. Reilly

Checked By: M. Lapin

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description	Moisture	Water Table			
				1		12" ASPHALT PAVEMENT					
				2		Drilled through coarse GRAVEL from 1' to 3' below grade.					
				3		Drilled through Concrete from 3' to 5' below grade.					
				4							
				5							
S-1*	24"	22 31 20 32	ND	6		Very dense brown SILT, trace Sand.	Dry				
				7							
S-2	18"	6 10 10 14	ND	8		medium dense, brown SILT, trace Sand.	Wet				
				9							
				10		End of boring at 9 feet below grade. *Sample sent for laboratory analysis. ND = None Detected					
				11							
				12							
				13							

APPENDIX F

OF THE SITE INVESTIGATION REPORT OF
“PHASE I” PARCELS H, I AND C
YONKERS DOWNTOWN WATERFRONT
YONKERS, NEW YORK
BROWNFIELDS PROGRAM

Prepared for:
Mr. James Surdoval
Waterfront Development Director
City of Yonkers
40 Broadway
Yonkers, New York 10701

and

Mr. Thomas Gibbons
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-7010

Prepared by:
AKRF, Inc.
34 South Broadway
White Plains, New York 10601

MARCH 1999

PARCEL H

ENVIROTECH RESEARCH, INC.

Client ID: TP-1H
Site: Yonkers Waterfront

Lab Sample No: 66029
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Analyzed: 06/24/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e2308.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 15

VOLATILE ORGANICS - GC/MS METHOD 8260B

Parameter	Analytical Results		Quantitation
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg
Chloromethane		ND	
Bromomethane		ND	5.6
Vinyl Chloride		ND	5.6
Chloroethane		ND	5.6
Methylene Chloride		ND	5.6
Acetone	1.8JB		3.4
Carbon Disulfide	110		5.6
1,1-Dichloroethene		ND	5.6
1,1-Dichloroethane		ND	2.3
trans-1,2-Dichloroethene		ND	5.6
cis-1,2-Dichloroethene		ND	5.6
Chloroform		ND	5.6
1,2-Dichloroethane		ND	5.6
2-Butanone		ND	2.3
1,1,1-Trichloroethane	13		5.6
Carbon Tetrachloride	1.4J		5.6
Bromodichloromethane		ND	2.3
1,2-Dichloropropane		ND	1.1
cis-1,3-Dichloropropene		ND	1.1
Trichloroethene		ND	5.6
Dibromochloromethane		ND	1.1
1,1,2-Trichloroethane		ND	5.6
Benzene		ND	3.4
trans-1,3-Dichloropropene	1.1J		1.1
Bromoform		ND	5.6
4-Methyl-2-Pentanone		ND	4.5
2-Hexanone		ND	5.6
Tetrachloroethene		ND	5.6
1,1,2,2-Tetrachloroethane		ND	1.1
Toluene		ND	1.1
Chlorobenzene	1.6J		5.6
Ethylbenzene		ND	5.6
Styrene		ND	4.5
Xylene (Total)		ND	5.6
	1.0J		5.6

ENVIROTECH RESEARCH, INC.

Client ID: TP-1H
Site: Yonkers Waterfront

Lab Sample No: 66029
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Analyzed: 06/24/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e2308.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 14.6

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane	13.73	14	
2. Decane	14.43	49	
3. C11H24 Alkane	14.73	36	
4. Coeluting Alkanes	15.13	31	
5. Undecane	15.60	21	
6. Decahydronaphthalene isomer	15.68	14	
7. Unknown Siloxane	15.93	31	
8. Unknown	18.16	19	
9. Unknown Alkane	18.55	19	
10. C15H28 Aromatic	20.25	27	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
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25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

261

ENVIROTECH RESEARCH, INC.

Client ID: TP-1H
Site: Yonkers Waterfront

Lab Sample No: 66029
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/17/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u2665.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Phenol		ND	780
2-Chlorophenol		ND	780
2-Methylphenol		ND	780
4-Methylphenol		ND	780
2-Nitrophenol	100 J	780	780
2,4-Dimethylphenol		ND	780
2,4-Dichlorophenol		ND	780
4-Chloro-3-methylphenol		ND	780
2,4,6-Trichlorophenol		ND	780
2,4,5-Trichlorophenol		ND	780
2,4-Dinitrophenol		ND	780
4-Nitrophenol		ND	1600
4,6-Dinitro-2-methylphenol		ND	1600
Pentachlorophenol		ND	1600

ENVIROTECH RESEARCH, INC.

Client ID: **TP-1H**
Site: Yonkers Waterfront

Lab Sample No: **66029**
Lab Job No: **E651**

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/17/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u2665.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
bis(2-Chloroethyl) ether	ND		39
1,3-Dichlorobenzene	ND		780
1,4-Dichlorobenzene	ND		780
1,2-Dichlorobenzene	ND		780
bis(2-chloroisopropyl) ether	ND		780
N-Nitroso-di-n-propylamine	ND		39
Hexachloroethane	ND		39
Nitrobenzene	ND		39
Isophorone	ND		780
bis(2-Chloroethoxy) methane	ND		780
1,2,4-Trichlorobenzene	ND		39
Naphthalene	110 J		780
4-Chloroaniline	ND		780
Hexachlorobutadiene	ND		78
2-Methylnaphthalene	73 J		780
Hexachlorocyclopentadiene	ND		780
2-Chloronaphthalene	ND		780
2-Nitroaniline	ND		780
Dimethylphthalate	ND		780
Acenaphthylene	120 J		780
2,6-Dinitrotoluene	ND		78
3-Nitroaniline	ND		780
Acenaphthene	76 J		780
Dibenzofuran	58 J		780
2,4-Dinitrotoluene	ND		78
Diethylphthalate	ND		780
4-Chlorophenyl-phenylether	ND		780
Fluorene	ND		780
4-Nitroaniline	84 J		780
N-Nitrosodiphenylamine	ND		780
4-Bromophenyl-phenylether	ND		780
Hexachlorobenzene	ND		39
Phenanthrene	1000		780
Anthracene	310 J		780

ENVIROTECH RESEARCH, INC.

Client ID: TP-1H
Site: Yonkers Waterfront

Lab Sample No: 66029
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/17/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u2665.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Carbazole	110 J	780
Di-n-butylphthalate	ND	780
Fluoranthene	1700	780
Pyrene	1700	780
Butylbenzylphthalate	ND	780
3,3'-Dichlorobenzidine	ND	780
Benzo(a)anthracene	ND	1600
Chrysene	860	39
bis(2-Ethylhexyl)phthalate	1100	780
Di-n-octylphthalate	330 J	780
Benzo(b)fluoranthene	ND	780
Benzo(k)fluoranthene	1500	39
Benzo(a)pyrene	620	39
Indeno(1,2,3-cd)pyrene	910	39
Dibenz(a,h)anthracene	300	39
Benzo(g,h,i)perylene	100	39
	300 J	780

ENVIROTECH RESEARCH, INC.

Client ID: TP-1H
Site: Yonkers Waterfront

Lab Sample No: 66029
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/17/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u2665.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 14.6

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	21.27	1000	
2. Palmitic acid	21.42	2100	
3. Unknown Alkane	22.12	1000	
4. Unknown Organic Acid	22.60	2400	
5. Stearic acid	22.72	1000	
6. Unknown	22.99	870	
7. Unknown	23.54	900	
8. Unknown	23.80	1100	
9. Unknown	24.02	820	
10. Unknown	24.13	740	
11. Unknown	24.65	840	
12. Unknown	25.24	1000	
13. Unknown	25.55	1100	
14. Unknown	26.16	800	
15. Unknown	26.29	1000	
16. Unknown	27.53	4200	
17. C20H12 PAH	28.16	1900	
18. Unknown	28.58	2300	
19. Unknown	31.80	1700	
20. Unknown	32.05	1800	
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

28570

ENVIROTECH RESEARCH, INC.

Client ID: TP-1H
Site: Yonkers Waterfront

Lab Sample ID: 66029
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/18/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf008319.d
Rear File ID: pr008319.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 15

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016		ND	78	R
Aroclor-1221		ND	78	R
Aroclor-1232		ND	78	R
Aroclor-1242		ND	78	R
Aroclor-1248		ND	78	R
Aroclor-1254		ND	78	R
Aroclor-1260	420		78	R
Aroclor-1262	340		78	R
Aroclor-1268		ND	78	R
		ND	78	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-1H
Site: Yonkers Waterfront

Lab Sample No: 66029
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98

Matrix: SOLID
Level: LOW
% Moisture: 14.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	7860	13.6		P
Antimony	ND	1.1	N	P
Arsenic	14.1	0.89	*	P
Barium	99.2	0.33		P
Beryllium	0.40	0.047	B	P
Cadmium	0.25	0.094	B	P
Calcium	13300	9.9		P
Chromium	19.4	0.23		P
Cobalt	7.8	0.28	B	P
Copper	187	0.82		P
Iron	25900	9.7		P
Lead	266	0.59		P
Magnesium	5000	9.4		P
Manganese	314	0.26		P
Mercury	1.1	0.020		CV
Nickel	23.1	0.49		P
Potassium	1600	70.3		P
Selenium	ND	1.1		P
Silver	ND	0.33		P
Sodium	173	99.8	B	P
Thallium	ND	1.1		P
Vanadium	25.5	0.44		P
Zinc	187	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-3H
Site: Yonkers Waterfront

Lab Sample No: 66031
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Analyzed: 06/22/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0157.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: TP-3H
Site: Yonkers Waterfront

Lab Sample No: 66031
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Analyzed: 06/22/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0157.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Unknown Siloxane	16.80	7.6	
2. Unknown Siloxane	18.73	5.4	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

13

ENVIROTECH RESEARCH, INC.

Client ID: TP-3H
Site: Yonkers Waterfront

Lab Sample No: 66031
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5265.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	21
2-Chlorophenol	ND	21
2-Methylphenol	ND	21
4-Methylphenol	ND	21
2-Nitrophenol	ND	21
2,4-Dimethylphenol	ND	21
2,4-Dichlorophenol	ND	21
4-Chloro-3-methylphenol	ND	21
2,4,6-Trichlorophenol	ND	21
2,4,5-Trichlorophenol	ND	21
2,4-Dinitrophenol	ND	21
4-Nitrophenol	ND	42
4,6-Dinitro-2-methylphenol	ND	42
Pentachlorophenol	ND	42

ENVIROTECH RESEARCH, INC.

Client ID: TP-3H
Site: Yonkers Waterfront

Lab Sample No: 66031
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5265.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.0
1,3-Dichlorobenzene	ND	21
1,4-Dichlorobenzene	ND	21
1,2-Dichlorobenzene	ND	21
bis(2-chloroisopropyl) ether	ND	21
N-Nitroso-di-n-propylamine	ND	1.0
Hexachloroethane	ND	1.0
Nitrobenzene	ND	1.0
Isophorone	ND	21
bis(2-Chloroethoxy) methane	ND	21
1,2,4-Trichlorobenzene	ND	1.0
Naphthalene	0.3J	21
4-Chloroaniline	ND	21
Hexachlorobutadiene	ND	2.1
2-Methylnaphthalene	ND	21
Hexachlorocyclopentadiene	ND	21
2-Chloronaphthalene	ND	21
2-Nitroaniline	ND	21
Dimethylphthalate	ND	21
Acenaphthylene	0.6J	21
2,6-Dinitrotoluene	ND	2.1
3-Nitroaniline	ND	21
Acenaphthene	0.4J	21
Dibenzofuran	ND	21
2,4-Dinitrotoluene	ND	2.1
Diethylphthalate	ND	21
4-Chlorophenyl-phenylether	ND	21
Fluorene	0.3J	21
4-Nitroaniline	ND	21
N-Nitrosodiphenylamine	ND	21
4-Bromophenyl-phenylether	ND	21
Hexachlorobenzene	ND	1.0
Phenanthrene	4.4J	21
Anthracene	1.4J	21

ENVIROTECH RESEARCH, INC.

Client ID: TP-3H
Site: Yonkers Waterfront

Lab Sample No: 66031
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5265.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

Parameter	Analytical Result	Quantitation
	Units: ug/l	Limit Units: ug/l
Carbazole	0.6J	21
Di-n-butylphthalate	ND	21
Fluoranthene	14 J	21
Pyrene	13 J	21
Butylbenzylphthalate	ND	21
3,3'-Dichlorobenzidine	ND	21
Benzo(a)anthracene	7.9	42
Chrysene	8.9J	1.0
bis(2-Ethylhexyl)phthalate	ND	21
Di-n-octylphthalate	ND	21
Benzo(b)fluoranthene	10	21
Benzo(k)fluoranthene	3.6	1.0
Benzo(a)pyrene	8.1	1.0
Indeno(1,2,3-cd)pyrene	4.8	1.0
Dibenz(a,h)anthracene	1.3	1.0
Benzo(g,h,i)perylene	5.0J	21

ENVIROTECH RESEARCH, INC.

Client ID: TP-3H
Site: Yonkers Waterfront

Lab Sample No: 66031
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5265.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
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30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: TP-3H
Site: Yonkers Waterfront

Lab Sample ID: 66031
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/18/98
Date Analyzed: 06/19/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i

Matrix: WATER
Sample Volume: 990 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: of002061.d
Rear File ID: or002061.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.50	R
Aroclor-1221	ND	0.50	R
Aroclor-1232	ND	0.50	R
Aroclor-1242	ND	0.50	R
Aroclor-1248	ND	0.50	R
Aroclor-1254	ND	0.50	R
Aroclor-1260	0.54	0.50	R
Aroclor-1262	ND	0.50	R
Aroclor-1268	1.0	0.50	F
	ND	0.50	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-3H
Site: Yonkers Waterfront

Lab Sample No: 66031
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	3530	58.2		P
Antimony	ND	4.6		P
Arsenic	8.8	3.8		P
Barium	357	1.4		P
Beryllium	ND	0.20		P
Cadmium	1.7	0.40	B	P
Calcium	171000	42.2		P
Chromium	9.0	1.0	B	P
Cobalt	3.9	1.2	B	P
Copper	233	3.5		P
Iron	7000	41.5		P
Lead	267	2.5		P
Magnesium	37400	40.3		P
Manganese	200	1.1		P
Mercury	2.0	0.10		CV
Nickel	15.4	2.1	B	P
Potassium	11200	300		P
Selenium	6.2	4.8		P
Silver	ND	1.4		P
Sodium	96000	426		P
Thallium	ND	4.8		P
Vanadium	33.8	1.9	B	P
Zinc	833	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 66033
Lab Job No: E651

Date Sampled: 06/08/98
Date Received: 06/15/98
Date Analyzed: 06/22/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0148.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	1.2J	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0
	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 66033
Lab Job No: E651

Date Sampled: 06/08/98
Date Received: 06/15/98
Date Analyzed: 06/22/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0148.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Unknown Siloxane	16.77	8.4	
2.			
3.			
4.			
5.			
6.			
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29.			
30.			

TOTAL ESTIMATED CONCENTRATION

8.4

ENVIROTECH RESEARCH INC.

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

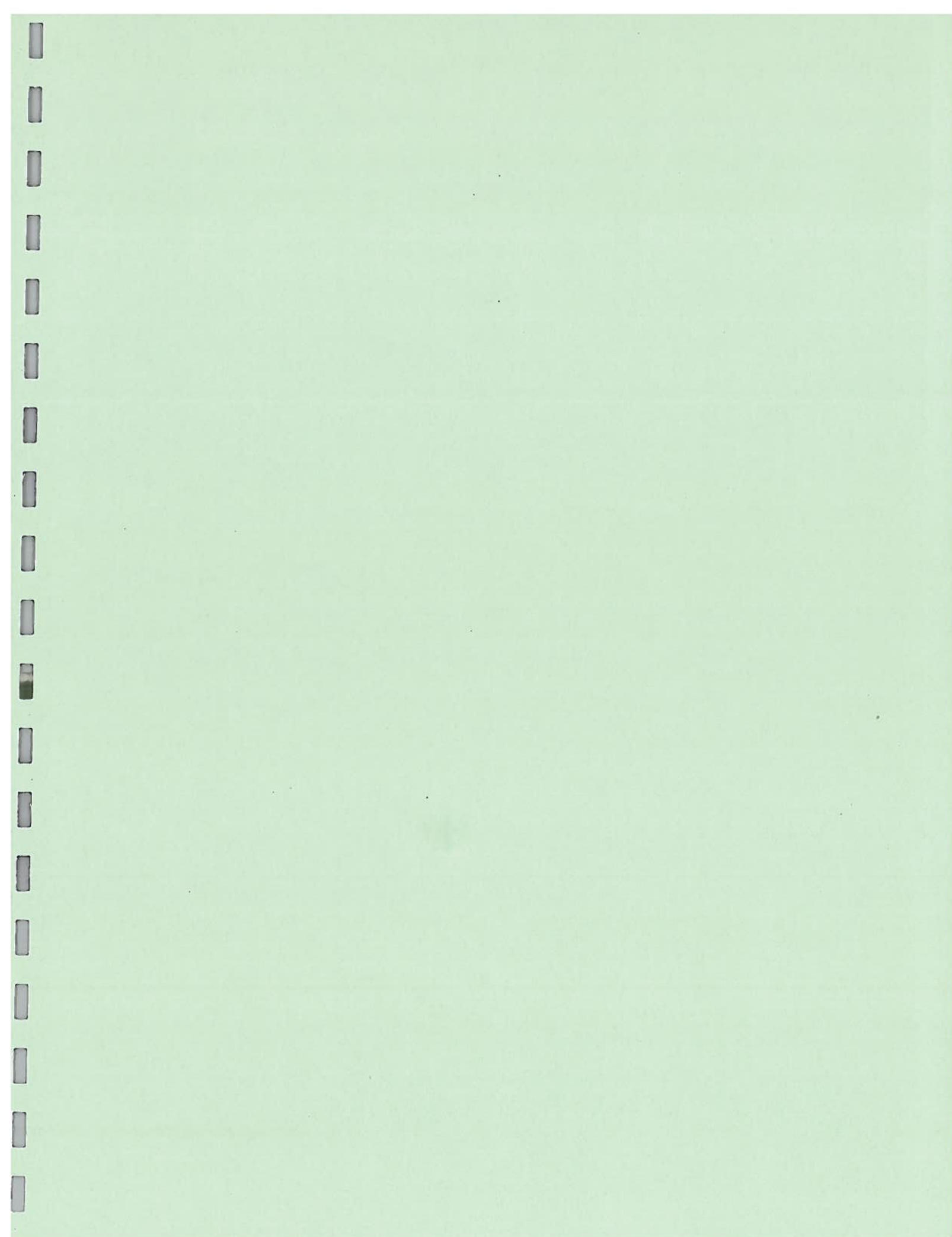
PAGE 1 OF 1

Name (for report and invoice) Michelle Lefin		Samplers Name (Printed) KEVIN REILLY		Site/Project Identification Monks waterfront	
Company AKRF, INC.		P.O. # 70004		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
Address 34 South Broadway		City White Plains		Regulatory Program: SLP Duxbury M	
State NY		Zip 10601		LAB USE ONLY Project No: 802144 Job No: E651	
Phone 914-949-7336		Fax 914-949-7559		Sample Numbers 66029 66030 66031 66032 66033	
Sample Identification		Date		ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQ)	
-TP1M		6-15-98		TCL VOCs <input checked="" type="checkbox"/> PCBs <input checked="" type="checkbox"/>	
TP4H		6-15-98		TCL VOCs <input checked="" type="checkbox"/> PCBs <input checked="" type="checkbox"/>	
TP3P		6-15-98		TCL VOCs <input checked="" type="checkbox"/> PCBs <input checked="" type="checkbox"/>	
TP4H		6-15-98		TCL VOCs <input checked="" type="checkbox"/> PCBs <input checked="" type="checkbox"/>	
TRIP BLANK		6-8-98		TCL VOCs <input checked="" type="checkbox"/> PCBs <input checked="" type="checkbox"/>	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH		Soil: <input type="checkbox"/>		Water: <input type="checkbox"/>	
6 = Other <input type="checkbox"/>		7 = Other <input type="checkbox"/>			

Special Instructions

Relinquished by 1) Kevin Reilly	Company AKRF, INC.	Date / Time 6-15-98 16:20	Received by 1) Neil Hurley	Company ERI	Water Metals Filtered (Yes/No) ERI
Relinquished by 2) Neil Hurley	Company ERI	Date / Time 6-15-98 11:00	Received by 2) Walter E. Lefin	Company ENVIROTECH	
Relinquished by 3) Walter E. Lefin	Company ENVIROTECH	Date / Time 6-15-98 18:00	Received by 3) Walter E. Lefin	Company ENVIROTECH	
Relinquished by 4) Walter E. Lefin	Company ENVIROTECH	Date / Time 6-15-98 18:00	Received by 4) Walter E. Lefin	Company ENVIROTECH	

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).



Client ID: TP-9H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66208
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Analyzed: 06/18/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0062.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	1.5	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: TP-9H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66208
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Analyzed: 06/18/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0062.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TP-9H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66208
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/17/98
Date Analyzed: 06/25/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1062.d

Matrix: WATER
Level: LOW
Sample Volume: 920 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	11
2-Chlorophenol	ND	11
2-Methylphenol	ND	11
4-Methylphenol	ND	11
2-Nitrophenol	ND	11
2,4-Dimethylphenol	ND	11
2,4-Dichlorophenol	ND	11
4-Chloro-3-methylphenol	ND	11
2,4,6-Trichlorophenol	ND	11
2,4,5-Trichlorophenol	ND	11
2,4-Dinitrophenol	ND	11
4-Nitrophenol	ND	27
4,6-Dinitro-2-methylphenol	ND	27
Pentachlorophenol	ND	27

Client ID: TP-9H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66208
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/17/98
Date Analyzed: 06/25/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1062.d

Matrix: WATER
Level: LOW
Sample Volume: 920 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	11
1,3-Dichlorobenzene	ND	11
1,4-Dichlorobenzene	ND	11
1,2-Dichlorobenzene	ND	11
bis(2-chloroisopropyl) ether	ND	11
N-Nitroso-di-n-propylamine	ND	11
Hexachloroethane	ND	11
Nitrobenzene	ND	11
Isophorone	ND	11
bis(2-Chloroethoxy) methane	ND	11
1,2,4-Trichlorobenzene	ND	11
Naphthalene	ND	11
4-Chloroaniline	ND	11
Hexachlorobutadiene	ND	11
2-Methylnaphthalene	ND	11
Hexachlorocyclopentadiene	ND	11
2-Chloronaphthalene	ND	11
2-Nitroaniline	ND	27
Dimethylphthalate	ND	11
Acenaphthylene	ND	11
2,6-Dinitrotoluene	ND	11
3-Nitroaniline	ND	27
Acenaphthene	ND	11
Dibenzofuran	ND	11
2,4-Dinitrotoluene	ND	11
Diethylphthalate	ND	11
4-Chlorophenyl-phenylether	ND	11
Fluorene	ND	11
4-Nitroaniline	ND	11
N-Nitrosodiphenylamine	ND	27
4-Bromophenyl-phenylether	ND	11
Hexachlorobenzene	ND	11
Phenanthrene	ND	11
Anthracene	ND	11

Client ID: TP-9H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66208
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/17/98
Date Analyzed: 06/25/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1062.d

Matrix: WATER
Level: LOW
Sample Volume: 920 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	11
Di-n-butylphthalate	ND	11
Fluoranthene	ND	11
Pyrene	ND	11
Butylbenzylphthalate	ND	11
3,3'-Dichlorobenzidine	ND	11
Benzo(a)anthracene	ND	22
Chrysene	ND	11
bis(2-Ethylhexyl)phthalate	ND	11
Di-n-octylphthalate	ND	11
Benzo(b)fluoranthene	ND	11
Benzo(k)fluoranthene	ND	11
Benzo(a)pyrene	ND	11
Indeno(1,2,3-cd)pyrene	ND	11
Dibenz(a,h)anthracene	ND	11
Benzo(g,h,i)perylene	ND	11

Client ID: TP-9H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66208
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/17/98
Date Analyzed: 06/25/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1062.d

Matrix: WATER
Level: LOW
Sample Volume: 920 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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16.			
17.			
18.			
19.			
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21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TP-9H-Aq
Site: Yonkers Waterfront

Lab Sample ID: 66208
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/19/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i

Matrix: WATER
Sample Volume: 860 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: of002059.d
Rear File ID: or002059.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.58	R
Aroclor-1221	ND	0.58	R
Aroclor-1232	ND	0.58	R
Aroclor-1242	ND	0.58	R
Aroclor-1248	ND	0.58	R
Aroclor-1254	ND	0.58	R
Aroclor-1260	ND	0.58	R
Aroclor-1262	ND	0.58	R
Aroclor-1268	ND	0.58	R

Client ID: TP-9H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66208
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	6810	58.2		P
Antimony	ND	4.6		P
Arsenic	6.4	3.8		P
Barium	146	1.4	B	P
Beryllium	0.38	0.20	B	P
Cadmium	ND	0.40		P
Calcium	124000	42.2		P
Chromium	22.8	1.0		P
Cobalt	7.3	1.2	B	P
Copper	41.0	3.5		P
Iron	11600	41.5		P
Lead	58.2	2.5		P
Magnesium	219000	40.3		P
Manganese	245	1.1		P
Mercury	0.43	0.10		CV
Nickel	27.6	2.1	B	P
Potassium	79200	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	1790000	4260		P
Thallium	ND	4.8		P
Vanadium	20.9	1.9	B	P
Zinc	116	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: TP-8H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66209
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Analyzed: 06/17/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0036.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	8.6	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: TP-8H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66209
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Analyzed: 06/17/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0036.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TP-8H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66209
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/17/98
Date Analyzed: 06/25/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1063.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	10
2-Chlorophenol	ND	10
2-Methylphenol	ND	10
4-Methylphenol	ND	10
2-Nitrophenol	ND	10
2,4-Dimethylphenol	ND	10
2,4-Dichlorophenol	ND	10
4-Chloro-3-methylphenol	ND	10
2,4,6-Trichlorophenol	ND	10
2,4,5-Trichlorophenol	ND	10
2,4-Dinitrophenol	ND	10
4-Nitrophenol	ND	26
4,6-Dinitro-2-methylphenol	ND	26
Pentachlorophenol	ND	26

Client ID: TP-8H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66209
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/17/98
Date Analyzed: 06/25/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1063.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result	Quantitation
	Units: ug/l	Limit Units: ug/l
bis(2-Chloroethyl) ether	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
bis(2-chloroisopropyl) ether	ND	10
N-Nitroso-di-n-propylamine	ND	10
Hexachloroethane	ND	10
Nitrobenzene	ND	10
Isophorone	ND	10
bis(2-Chloroethoxy) methane	ND	10
1,2,4-Trichlorobenzene	ND	10
Naphthalene	ND	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND	10
2-Methylnaphthalene	ND	10
Hexachlorocyclopentadiene	ND	10
2-Chloronaphthalene	ND	10
2-Nitroaniline	ND	10
Dimethylphthalate	ND	26
Acenaphthylene	ND	10
2,6-Dinitrotoluene	ND	10
3-Nitroaniline	ND	10
Acenaphthene	ND	26
Dibenzofuran	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
4-Chlorophenyl-phenylether	ND	10
Fluorene	ND	10
4-Nitroaniline	ND	10
N-Nitrosodiphenylamine	ND	26
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	10
Phenanthrene	ND	10
Anthracene	ND	10

Client ID: TP-8H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66209
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/17/98
Date Analyzed: 06/25/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1063.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	10
Benzo(a)anthracene	ND	21
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	ND	10
Di-n-octylphthalate	3.8J	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Dibenz(a,h)anthracene	ND	10
Benzo(g,h,i)perylene	ND	10

Client ID: TP-8H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66209
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/17/98
Date Analyzed: 06/25/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1063.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TP-8H-Aq
Site: Yonkers Waterfront

Lab Sample ID: 66209
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/19/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i

Matrix: WATER
Sample Volume: 960 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: of002060.d
Rear File ID: or002060.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	Analytical Results <u>Units: ug/l</u>	Method Detection	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.52	R
Aroclor-1221	ND	0.52	R
Aroclor-1232	ND	0.52	R
Aroclor-1242	ND	0.52	R
Aroclor-1248	ND	0.52	R
Aroclor-1254	ND	0.52	R
Aroclor-1260	ND	0.52	R
Aroclor-1262	ND	0.52	R
Aroclor-1268	ND	0.52	R

Client ID: TP-8H-Aq
Site: Yonkers Waterfront

Lab Sample No: 66209
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	3480	58.2		P
Antimony	ND	4.6		P
Arsenic	4.2	3.8		P
Barium	58.2	1.4	B	P
Beryllium	0.34	0.20	B	P
Cadmium	ND	0.40		P
Calcium	110000	42.2		P
Chromium	4.2	1.0	B	P
Cobalt	2.4	1.2	B	P
Copper	32.1	3.5		P
Iron	7950	41.5		P
Lead	12.3	2.5		P
Magnesium	118000	40.3		P
Manganese	164	1.1		P
Mercury	ND	0.10		CV
Nickel	11.7	2.1	B	P
Potassium	44000	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	375000	852		P
Thallium	ND	4.8		P
Vanadium	9.8	1.9	B	P
Zinc	135	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: TP-9H-S
Site: Yonkers Waterfront

Lab Sample No: 66210
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e2310.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u>	<u>(Dry Weight)</u>	<u>Limit</u>
			<u>Units: ug/kg</u>
Chloromethane	ND		5.7
Bromomethane	ND		5.7
Vinyl Chloride	ND		5.7
Chloroethane	ND		5.7
Methylene Chloride	3.4JB		3.4
Acetone	57		5.7
Carbon Disulfide	ND		5.7
1,1-Dichloroethene	ND		2.3
1,1-Dichloroethane	ND		5.7
trans-1,2-Dichloroethene	ND		5.7
cis-1,2-Dichloroethene	ND		5.7
Chloroform	ND		5.7
1,2-Dichloroethane	ND		2.3
2-Butanone	3.2J		5.7
1,1,1-Trichloroethane	2.5J		5.7
Carbon Tetrachloride	ND		2.3
Bromodichloromethane	ND		1.1
1,2-Dichloropropane	ND		1.1
cis-1,3-Dichloropropene	ND		5.7
Trichloroethene	ND		1.1
Dibromochloromethane	ND		5.7
1,1,2-Trichloroethane	ND		3.4
Benzene	ND		1.1
trans-1,3-Dichloropropene	ND		5.7
Bromoform	ND		4.6
4-Methyl-2-Pentanone	ND		5.7
2-Hexanone	ND		5.7
Tetrachloroethene	ND		1.1
1,1,2,2-Tetrachloroethane	ND		1.1
Toluene	1.8J		5.7
Chlorobenzene	ND		5.7
Ethylbenzene	ND		4.6
Styrene	ND		5.7
Xylene (Total)	1.0J		5.7

Client ID: TP-9H-S
Site: Yonkers Waterfront

Lab Sample No: 66210
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e2310.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 11.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Hexanal	12.01	23	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

23

Client ID: TP-9H-S
Site: Yonkers Waterfront

Lab Sample No: 66210
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/26/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1070.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Phenol	ND	940
2-Chlorophenol	ND	940
2-Methylphenol	ND	940
4-Methylphenol	ND	940
2-Nitrophenol	ND	940
2,4-Dimethylphenol	ND	940
2,4-Dichlorophenol	ND	940
4-Chloro-3-methylphenol	ND	940
2,4,6-Trichlorophenol	ND	940
2,4,5-Trichlorophenol	ND	940
2,4-Dinitrophenol	ND	2300
4-Nitrophenol	ND	2300
4,6-Dinitro-2-methylphenol	ND	2300
Pentachlorophenol	ND	2300

Client ID: TP-9H-S
Site: Yonkers Waterfront

Lab Sample No: 66210
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/26/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1070.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
bis(2-Chloroethyl) ether	ND	940
1,3-Dichlorobenzene	ND	940
1,4-Dichlorobenzene	ND	940
1,2-Dichlorobenzene	ND	940
bis(2-chloroisopropyl) ether	ND	940
N-Nitroso-di-n-propylamine	ND	940
Hexachloroethane	ND	940
Nitrobenzene	ND	940
Isophorone	ND	940
bis(2-Chloroethoxy) methane	ND	940
1,2,4-Trichlorobenzene	ND	940
Naphthalene	46 J	940
4-Chloroaniline	ND	940
Hexachlorobutadiene	ND	940
2-Methylnaphthalene	26 J	940
Hexachlorocyclopentadiene	ND	940
2-Chloronaphthalene	ND	940
2-Nitroaniline	ND	940
Dimethylphthalate	ND	2300
Acenaphthylene	ND	940
2,6-Dinitrotoluene	130 J	940
3-Nitroaniline	ND	940
Acenaphthene	ND	2300
Dibenzofuran	100 J	940
2,4-Dinitrotoluene	61 J	940
Diethylphthalate	ND	940
4-Chlorophenyl-phenylether	ND	940
Fluorene	ND	940
4-Nitroaniline	120 J	940
N-Nitrosodiphenylamine	ND	2300
4-Bromophenyl-phenylether	ND	940
Hexachlorobenzene	ND	940
Phenanthrene	ND	940
Anthracene	2400 610 J	940 940

Client ID: TP-9H-S
Site: Yonkers Waterfront

Lab Sample No: 66210
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/26/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1070.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Carbazole	110	J	940
Di-n-butylphthalate	ND		940
Fluoranthene	5100		940
Pyrene	4800		940
Butylbenzylphthalate	ND		940
3,3'-Dichlorobenzidine	ND		1900
Benzo(a)anthracene	2400		940
Chrysene	2500		940
bis(2-Ethylhexyl)phthalate	ND		940
Di-n-octylphthalate	ND		940
Benzo(b)fluoranthene	3200		940
Benzo(k)fluoranthene	1300		940
Benzo(a)pyrene	2500		940
Indeno(1,2,3-cd)pyrene	1100		940
Dibenz(a,h)anthracene	290	J	940
Benzo(g,h,i)perylene	980		940

Client ID: TP-9H-S
Site: Yonkers Waterfront

Lab Sample No: 66210
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/26/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1070.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	24.25	1200	
2. C18H12 PAH	25.37	1700	
3. C20H12 PAH	28.80	1600	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

4500

Client ID: TP-9H-S
Site: Yonkers Waterfront

Lab Sample ID: 66210
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/19/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of002070.d
Rear File ID: or002070.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		76	R
Aroclor-1221	ND		76	R
Aroclor-1232	ND		76	R
Aroclor-1242	ND		76	R
Aroclor-1248	ND		76	R
Aroclor-1254	ND		76	R
Aroclor-1260	ND		76	R
Aroclor-1262	ND		76	R
Aroclor-1268	ND		76	R

Client ID: TP-9H-S
Site: Yonkers Waterfront

Lab Sample No: 66210
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98

Matrix: SOLID
Level: LOW
% Moisture: 11.9

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Aluminum	8180	13.2		P
Antimony	ND	1.0	N	P
Arsenic	3.2	0.86	*	P
Barium	93.9	0.32		P
Beryllium	0.34	0.045	B	P
Cadmium	ND	0.091		P
Calcium	21500	9.6		P
Chromium	31.2	0.23		P
Cobalt	5.8	0.27	B	P
Copper	28.8	0.79		P
Iron	14800	9.4		P
Lead	81.3	0.57		P
Magnesium	6210	9.1		P
Manganese	259	0.25		P
Mercury	0.86	0.019		CV
Nickel	22.6	0.48		P
Potassium	2580	68.2		P
Selenium	ND	1.1		P
Silver	ND	0.32		P
Sodium	220	96.7	B	P
Thallium	ND	1.1		P
Vanadium	26.8	0.43		P
Zinc	102	1.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: TP-10H-S
Site: Yonkers Waterfront

Lab Sample No: 66211
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e2317.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	6.0
Bromomethane	ND	6.0
Vinyl Chloride	ND	6.0
Chloroethane	ND	6.0
Methylene Chloride	ND	6.0
Acetone	11 B	3.6
Carbon Disulfide	84	6.0
1,1-Dichloroethene	ND	6.0
1,1-Dichloroethane	ND	2.4
trans-1,2-Dichloroethene	ND	6.0
cis-1,2-Dichloroethene	ND	6.0
Chloroform	ND	6.0
1,2-Dichloroethane	ND	6.0
2-Butanone	ND	2.4
1,1,1-Trichloroethane	ND	6.0
Carbon Tetrachloride	2.5J	6.0
Bromodichloromethane	ND	2.4
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	1.2
Trichloroethene	ND	6.0
Dibromochloromethane	2.2	1.2
1,1,2-Trichloroethane	ND	6.0
Benzene	ND	3.6
trans-1,3-Dichloropropene	2.4	1.2
Bromoform	ND	6.0
4-Methyl-2-Pentanone	ND	4.8
2-Hexanone	ND	6.0
Tetrachloroethene	ND	6.0
1,1,2,2-Tetrachloroethane	6.1	1.2
Toluene	ND	1.2
Chlorobenzene	1.9J	6.0
Ethylbenzene	ND	6.0
Styrene	ND	4.8
Xylene (Total)	ND	6.0
	ND	6.0

Client ID: TP-10H-S
Site: Yonkers Waterfront

Lab Sample No: 66211
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e2317.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 16.3

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Coeluting Unknowns	17.15	320	
2. Coeluting Aromatics	17.69	320	
3. C13H22 Aromatic	18.05	270	
4. Coeluting Aromatics	18.26	320	
5. Coeluting Unknowns	19.12	370	
6. Unknown	19.26	240	
7. Coeluting Unknowns	19.43	360	
8. Coeluting Aromatics	20.26	500	
9. Coeluting Aromatics	20.70	230	
10. C15H28 Aromatic	20.81	450	
11.			
12.			
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21.			
22.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

3380

Client ID: TP-10H-S
Site: Yonkers Waterfront

Lab Sample No: 66211
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/26/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1069.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 200.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results		Quantitation
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg
Phenol	ND		80000
2-Chlorophenol	ND		80000
2-Methylphenol	ND		80000
4-Methylphenol	ND		80000
2-Nitrophenol	ND		80000
2,4-Dimethylphenol	ND		80000
2,4-Dichlorophenol	ND		80000
4-Chloro-3-methylphenol	ND		80000
2,4,6-Trichlorophenol	ND		80000
2,4,5-Trichlorophenol	ND		80000
2,4-Dinitrophenol	ND		80000
4-Nitrophenol	ND		190000
4,6-Dinitro-2-methylphenol	ND		190000
Pentachlorophenol	ND		190000

Client ID: TP-10H-S
Site: Yonkers Waterfront

Lab Sample No: 66211
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/26/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1069.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 200.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
bis(2-Chloroethyl) ether	ND		80000
1,3-Dichlorobenzene	ND		80000
1,4-Dichlorobenzene	ND		80000
1,2-Dichlorobenzene	ND		80000
bis(2-chloroisopropyl) ether	ND		80000
N-Nitroso-di-n-propylamine	ND		80000
Hexachloroethane	ND		80000
Nitrobenzene	ND		80000
Isophorone	ND		80000
bis(2-Chloroethoxy) methane	ND		80000
1,2,4-Trichlorobenzene	ND		80000
Naphthalene	ND		80000
4-Chloroaniline	ND		80000
Hexachlorobutadiene	ND		80000
2-Methylnaphthalene	ND		80000
Hexachlorocyclopentadiene	ND		80000
2-Chloronaphthalene	ND		80000
2-Nitroaniline	ND		80000
Dimethylphthalate	ND		190000
Acenaphthylene	ND		80000
2,6-Dinitrotoluene	ND		80000
3-Nitroaniline	ND		80000
Acenaphthene	ND		190000
Dibenzofuran	ND		80000
2,4-Dinitrotoluene	ND		80000
Diethylphthalate	ND		80000
4-Chlorophenyl-phenylether	ND		80000
Fluorene	ND		80000
4-Nitroaniline	ND		80000
N-Nitrosodiphenylamine	ND		190000
4-Bromophenyl-phenylether	ND		80000
Hexachlorobenzene	ND		80000
Phenanthrene	ND		80000
Anthracene	ND		80000

Client ID: TP-10H-S
Site: Yonkers Waterfront

Lab Sample No: 66211
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/26/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1069.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 200.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Carbazole		ND	80000
Di-n-butylphthalate		ND	80000
Fluoranthene		ND	80000
Pyrene	4100	J	80000
Butylbenzylphthalate	3800	J	80000
3,3'-Dichlorobenzidine		ND	80000
Benzo(a)anthracene		ND	160000
Chrysene	1800	J	80000
bis(2-Ethylhexyl)phthalate	1800	J	80000
Di-n-octylphthalate	980000		80000
Benzo(b)fluoranthene		ND	80000
Benzo(k)fluoranthene		ND	80000
Benzo(a)pyrene		ND	80000
Indeno(1,2,3-cd)pyrene		ND	80000
Dibenz(a,h)anthracene		ND	80000
Benzo(g,h,i)perylene		ND	80000

Client ID: TP-10H-S
Site: Yonkers Waterfront

Lab Sample No: 66211
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/26/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m1069.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 200.0
% Moisture: 16.3

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TP-10H-S
Site: Yonkers Waterfront

Lab Sample ID: 66211
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98
Date Extracted: 06/18/98
Date Analyzed: 06/24/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of002158.d
Rear File ID: or002158.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 2.0
% Moisture: 16

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016		ND	160	
Aroclor-1221		ND	160	R
Aroclor-1232		ND	160	R
Aroclor-1242		ND	160	R
Aroclor-1248		ND	160	R
Aroclor-1254		ND	160	R
Aroclor-1260	2800	ND	160	F
Aroclor-1262		ND	160	R
Aroclor-1268		ND	160	R

Client ID: TP-10H-S
Site: Yonkers Waterfront

Lab Sample No: 66211
Lab Job No: E684

Date Sampled: 06/16/98
Date Received: 06/16/98

Matrix: SOLID
Level: LOW
% Moisture: 16.3

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	4100	13.9		P
Antimony	8.4	1.1	N	P
Arsenic	19.1	0.91	*	P
Barium	426	0.33		P
Beryllium	0.33	0.048	B	P
Cadmium	4.3	0.096		P
Calcium	25600	10.1		P
Chromium	30.8	0.24		P
Cobalt	11.6	0.29	B	P
Copper	6890	4.2		P
Iron	21700	9.9		P
Lead	5400	3.0		P
Magnesium	8540	9.6		P
Manganese	299	0.26		P
Mercury	0.38	0.020		P
Nickel	51.0	0.50		CV
Potassium	874	71.8	B	P
Selenium	ND	1.7		P
Silver	31.9	0.33		P
Sodium	421	102	B	P
Thallium	ND	1.1		P
Vanadium	18.9	0.45		P
Zinc	3930	5.4		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

777 New Durham Road

Edison, New Jersey 08817

Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

[illegible]

Special Instructions

[illegible]

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).



ENVIROTECH RESEARCH, INC.

Client ID: MW-2H
Site: Yonkers Waterfront

Lab Sample No: 73501
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d6189.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2H
Site: Yonkers Waterfront

Lab Sample No: 73501
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d6189.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

**VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B**

[illegible]

ENVIROTECH RESEARCH, INC.

Client ID: MW-2H
Site: Yonkers Waterfront

Lab Sample No: 73501
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6290.d

Matrix: WATER
Level: LOW
Sample Volume: 730 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	14
2-Chlorophenol	ND	14
2-Methylphenol	ND	14
4-Methylphenol	ND	14
2-Nitrophenol	ND	14
2,4-Dimethylphenol	ND	14
2,4-Dichlorophenol	ND	14
4-Chloro-3-methylphenol	ND	14
2,4,6-Trichlorophenol	ND	14
2,4,5-Trichlorophenol	ND	14
2,4-Dinitrophenol	ND	14
4-Nitrophenol	ND	55
4,6-Dinitro-2-methylphenol	ND	55
Pentachlorophenol	ND	55

ENVIROTECH RESEARCH, INC.

Client ID: MW-2H
Site: Yonkers Waterfront

Lab Sample No: 73501
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6290.d

Matrix: WATER
Level: LOW
Sample Volume: 730 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.4
1,3-Dichlorobenzene	ND	14
1,4-Dichlorobenzene	ND	14
1,2-Dichlorobenzene	ND	14
bis(2-chloroisopropyl) ether	ND	14
N-Nitroso-di-n-propylamine	ND	14
Hexachloroethane	ND	1.4
Nitrobenzene	ND	1.4
Isophorone	ND	1.4
bis(2-Chloroethoxy) methane	ND	14
1,2,4-Trichlorobenzene	ND	14
Naphthalene	ND	1.4
4-Chloroaniline	ND	14
Hexachlorobutadiene	ND	14
2-Methylnaphthalene	ND	2.7
Hexachlorocyclopentadiene	ND	14
2-Chloronaphthalene	ND	14
2-Nitroaniline	ND	14
Dimethylphthalate	ND	27
Acenaphthylene	ND	14
2,6-Dinitrotoluene	ND	14
3-Nitroaniline	ND	2.7
Acenaphthene	ND	27
Dibenzofuran	ND	14
2,4-Dinitrotoluene	ND	14
Diethylphthalate	ND	2.7
4-Chlorophenyl-phenylether	ND	14
Fluorene	ND	14
4-Nitroaniline	ND	14
N-Nitrosodiphenylamine	ND	27
4-Bromophenyl-phenylether	ND	14
Hexachlorobenzene	ND	14
Phenanthrene	ND	1.4
Anthracene	ND	14

ENVIROTECH RESEARCH, INC.

Client ID: MW-2H
Site: Yonkers Waterfront

Lab Sample No: 73501
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6290.d

Matrix: WATER
Level: LOW
Sample Volume: 730 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	14
Di-n-butylphthalate	ND	14
Fluoranthene	ND	14
Pyrene	ND	14
Butylbenzylphthalate	ND	14
3,3'-Dichlorobenzidine	ND	14
Benzo(a)anthracene	ND	27
Chrysene	ND	1.4
bis(2-Ethylhexyl)phthalate	ND	14
Di-n-octylphthalate	ND	14
Benzo(b)fluoranthene	ND	14
Benzo(k)fluoranthene	ND	1.4
Benzo(a)pyrene	ND	1.4
Indeno(1,2,3-cd)pyrene	ND	1.4
Dibenz(a,h)anthracene	ND	1.4
Benzo(g,h,i)perylene	ND	1.4
		14

ENVIROTECH RESEARCH, INC.

Client ID: MW-2H
Site: Yonkers Waterfront

Lab Sample No: 73501
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6290.d

Matrix: WATER
Level: LOW
Sample Volume: 730 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
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13.			
14.			
15.			
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17.			
18.			
19.			
20.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2H
Site: Yonkers Waterfront

Lab Sample ID: 73501
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 780 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009062.d
Rear File ID: pr009062.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/wipe</u>	<u>Quantitation</u>	
		<u>Limit</u> <u>Units: ug/wipe</u>	<u>Column</u>
Aroclor-1016	ND	0.64	R
Aroclor-1221	ND	0.64	R
Aroclor-1232	ND	0.64	R
Aroclor-1242	ND	0.64	R
Aroclor-1248	ND	0.64	R
Aroclor-1254	ND	0.64	R
Aroclor-1260	ND	0.64	R
Aroclor-1262	ND	0.64	R
Aroclor-1268	ND	0.64	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA1
Site: Yonkers Waterfront

Lab Sample ID: 73501A1
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/28/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 780 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009089.d
Rear File ID: pr009089.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8081A

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/wipe</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/wipe</u>	<u>Column</u>
Halowax-1014	2.9	0.64	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-2H
Site: Yonkers Waterfront

Lab Sample No: 73501
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	38500	58.2		P
Antimony	ND	4.6	N	P
Arsenic	24.9	3.8		P
Barium	396	1.4		P
Beryllium	1.8	0.20	B	P
Cadmium	ND	0.40		P
Calcium	130000	42.2		P
Chromium	71.8	1.0		P
Cobalt	23.8	1.2	B	P
Copper	334	3.5		P
Iron	57800	41.5		P
Lead	488	2.5		P
Magnesium	75400	40.3		P
Manganese	1660	1.1	N	P
Mercury	1.8	0.10	N	CV
Nickel	55.5	2.1		P
Potassium	23300	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	386000	2130		P
Thallium	ND	4.8		P
Vanadium	75.2	1.9		P
Zinc	624	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA
Site: Yonkers Waterfront

Lab Sample No: 73502
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d6190.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA
Site: Yonkers Waterfront

Lab Sample No: 73502
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d6190.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA
Site: Yonkers Waterfront

Lab Sample No: 73502
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6291.d

Matrix: WATER
Level: LOW
Sample Volume: 740 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	
2-Chlorophenol	ND	14
2-Methylphenol	ND	14
4-Methylphenol	ND	14
2-Nitrophenol	ND	14
2,4-Dimethylphenol	ND	14
2,4-Dichlorophenol	ND	14
4-Chloro-3-methylphenol	ND	14
2,4,6-Trichlorophenol	ND	14
2,4,5-Trichlorophenol	ND	14
2,4-Dinitrophenol	ND	14
4-Nitrophenol	ND	54
4,6-Dinitro-2-methylphenol	ND	54
Pentachlorophenol	ND	54

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA
Site: Yonkers Waterfront

Lab Sample No: 73502
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6291.d

Matrix: WATER
Level: LOW
Sample Volume: 740 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.4
1,3-Dichlorobenzene	ND	14
1,4-Dichlorobenzene	ND	14
1,2-Dichlorobenzene	ND	14
bis(2-chloroisopropyl) ether	ND	14
N-Nitroso-di-n-propylamine	ND	14
Hexachloroethane	ND	1.4
Nitrobenzene	ND	1.4
Isophorone	ND	1.4
bis(2-Chloroethoxy) methane	ND	14
1,2,4-Trichlorobenzene	ND	14
Naphthalene	ND	1.4
4-Chloroaniline	ND	14
Hexachlorobutadiene	ND	14
2-Methylnaphthalene	ND	2.7
Hexachlorocyclopentadiene	ND	14
2-Chloronaphthalene	ND	14
2-Nitroaniline	ND	14
Dimethylphthalate	ND	27
Acenaphthylene	ND	14
2,6-Dinitrotoluene	ND	14
3-Nitroaniline	ND	2.7
Acenaphthene	ND	27
Dibenzofuran	ND	14
2,4-Dinitrotoluene	ND	14
Diethylphthalate	ND	2.7
4-Chlorophenyl-phenylether	ND	14
Fluorene	ND	14
4-Nitroaniline	ND	14
N-Nitrosodiphenylamine	ND	27
4-Bromophenyl-phenylether	ND	14
Hexachlorobenzene	ND	14
Phenanthrene	ND	1.4
Anthracene	ND	14

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA
Site: Yonkers Waterfront

Lab Sample No: 73502
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6291.d

Matrix: WATER
Level: LOW
Sample Volume: 740 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u>
		<u>Units: ug/l</u>
Carbazole	ND	14
Di-n-butylphthalate	ND	14
Fluoranthene	ND	14
Pyrene	ND	14
Butylbenzylphthalate	ND	14
3,3'-Dichlorobenzidine	ND	14
Benzo(a)anthracene	ND	27
Chrysene	ND	1.4
bis(2-Ethylhexyl)phthalate	ND	14
Di-n-octylphthalate	ND	14
Benzo(b)fluoranthene	ND	14
Benzo(k)fluoranthene	ND	1.4
Benzo(a)pyrene	ND	1.4
Indeno(1,2,3-cd)pyrene	ND	1.4
Dibenz(a,h)anthracene	ND	1.4
Benzo(g,h,i)perylene	ND	1.4
		14

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA
Site: Yonkers Waterfront

Lab Sample No: 73502
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6291.d

Matrix: WATER
Level: LOW
Sample Volume: 740 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA
Site: Yonkers Waterfront

Lab Sample ID: 73502
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 750 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009063.d
Rear File ID: pr009063.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/wipe</u>	<u>Quantitation</u>	
		<u>Limit</u> <u>Units: ug/wipe</u>	<u>Column</u>
Aroclor-1016	ND	0.67	R
Aroclor-1221	ND	0.67	R
Aroclor-1232	ND	0.67	R
Aroclor-1242	ND	0.67	R
Aroclor-1248	ND	0.67	R
Aroclor-1254	ND	0.67	R
Aroclor-1260	ND	0.67	R
Aroclor-1262	ND	0.67	R
Aroclor-1268 .	ND	0.67	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HAA1
Site: Yonkers Waterfront

Lab Sample ID: 73502A1
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/28/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 750 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009090.d
Rear File ID: pr009090.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8081A

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/wipe</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/wipe</u>	<u>Column</u>
Halowax-1014	3.3	0.67	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA
Site: Yonkers Waterfront

Lab Sample No: 73502
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	36700	58.2		P
Antimony	ND	4.6	N	P
Arsenic	22.3	3.8		P
Barium	363	1.4		P
Beryllium	1.8	0.20	B	P
Cadmium	ND	0.40		P
Calcium	130000	42.2		P
Chromium	67.8	1.0		P
Cobalt	23.2	1.2	B	P
Copper	323	3.5		P
Iron	55700	41.5		P
Lead	491	12.5		P
Magnesium	74800	40.3		P
Manganese	1640	1.1	N	P
Mercury	1.8	0.10	N	P
Nickel	114	2.1		CV
Potassium	22900	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	371000	2130		P
Thallium	ND	4.8		P
Vanadium	73.5	1.9		P
Zinc	620	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: Field_Blank
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7133.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0
	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7133.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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6.			
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23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: Yonkers Waterfront

Lab Sample No: **73503**
Lab Job No: **F821**

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6292.d

Matrix: **WATER**
Level: **LOW**
Sample Volume: 610 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	16
2-Chlorophenol	ND	16
2-Methylphenol	ND	16
4-Methylphenol	ND	16
2-Nitrophenol	ND	16
2,4-Dimethylphenol	ND	16
2,4-Dichlorophenol	ND	16
4-Chloro-3-methylphenol	ND	16
2,4,6-Trichlorophenol	ND	16
2,4,5-Trichlorophenol	ND	16
2,4-Dinitrophenol	ND	16
4-Nitrophenol	ND	66
4,6-Dinitro-2-methylphenol	ND	66
Pentachlorophenol	ND	66

ENVIROTECH RESEARCH, INC.

Client ID: ~~Field Blank~~
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6292.d

Matrix: WATER
Level: LOW
Sample Volume: 610 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u>
		<u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.6
1,3-Dichlorobenzene	ND	16
1,4-Dichlorobenzene	ND	16
1,2-Dichlorobenzene	ND	16
bis(2-chloroisopropyl) ether	ND	16
N-Nitroso-di-n-propylamine	ND	16
Hexachloroethane	ND	1.6
Nitrobenzene	ND	1.6
Isophorone	ND	1.6
bis(2-Chloroethoxy) methane	ND	16
1,2,4-Trichlorobenzene	ND	16
Naphthalene	ND	1.6
4-Chloroaniline	ND	16
Hexachlorobutadiene	ND	16
2-Methylnaphthalene	ND	3.3
Hexachlorocyclopentadiene	ND	16
2-Chloronaphthalene	ND	16
2-Nitroaniline	ND	16
Dimethylphthalate	ND	33
Acenaphthylene	ND	16
2,6-Dinitrotoluene	ND	16
3-Nitroaniline	ND	3.3
Acenaphthene	ND	33
Dibenzofuran	ND	16
2,4-Dinitrotoluene	ND	16
Diethylphthalate	ND	3.3
4-Chlorophenyl-phenylether	ND	16
Fluorene	ND	16
4-Nitroaniline	ND	16
N-Nitrosodiphenylamine	ND	33
4-Bromophenyl-phenylether	ND	16
Hexachlorobenzene	ND	16
Phenanthrene	ND	1.6
Anthracene	ND	16

ENVIROTECH RESEARCH, INC.

Client ID: ~~Field Blank~~
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6292.d

Matrix: WATER
Level: LOW
Sample Volume: 610 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	16
Di-n-butylphthalate	ND	16
Fluoranthene	ND	16
Pyrene	ND	16
Butylbenzylphthalate	ND	16
3,3'-Dichlorobenzidine	ND	16
Benzo(a)anthracene	ND	33
Chrysene	ND	1.6
bis(2-Ethylhexyl)phthalate	ND	16
Di-n-octylphthalate	3.9J	16
Benzo(b)fluoranthene	ND	16
Benzo(k)fluoranthene	ND	1.6
Benzo(a)pyrene	ND	1.6
Indeno(1,2,3-cd)pyrene	ND	1.6
Dibenz(a,h)anthracene	ND	1.6
Benzo(g,h,i)perylene	ND	1.6
		16

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6292.d

Matrix: WATER
Level: LOW
Sample Volume: 610 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: Yonkers Waterfront

Lab Sample ID: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 670 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009064.d
Rear File ID: pr009064.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/wipe</u>	<u>Quantitation</u>	
		<u>Limit</u> <u>Units: ug/wipe</u>	<u>Column</u>
Aroclor-1016	ND	0.75	R
Aroclor-1221	ND	0.75	R
Aroclor-1232	ND	0.75	R
Aroclor-1242	ND	0.75	R
Aroclor-1248	ND	0.75	R
Aroclor-1254	ND	0.75	R
Aroclor-1260	ND	0.75	R
Aroclor-1262	ND	0.75	R
Aroclor-1268	ND	0.75	R

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	ND	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	ND	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	ND	40.3		P
Manganese	ND	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	ND	2.1		P
Potassium	ND	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	ND	426		P
Thallium	ND	4.8		P
Vanadium	ND	1.9		P
Zinc	8.2	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 73504
Lab Job No: F821

Date Sampled: 07/21/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7134.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 73504
Lab Job No: F821

Date Sampled: 07/21/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7134.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-1H
Site: Yonkers Waterfront

Lab Sample No: 73507
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7137.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	17	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-1H
Site: Yonkers Waterfront

Lab Sample No: 73507
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7137.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-1H
Site: Yonkers Waterfront

Lab Sample No: 73507
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6295.d

Matrix: WATER
Level: LOW
Sample Volume: 840 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	12
2-Chlorophenol	ND	12
2-Methylphenol	ND	12
4-Methylphenol	ND	12
2-Nitrophenol	ND	12
2,4-Dimethylphenol	ND	12
2,4-Dichlorophenol	ND	12
4-Chloro-3-methylphenol	ND	12
2,4,6-Trichlorophenol	ND	12
2,4,5-Trichlorophenol	ND	12
2,4-Dinitrophenol	ND	48
4-Nitrophenol	ND	48
4,6-Dinitro-2-methylphenol	ND	48
Pentachlorophenol	ND	48

ENVIROTECH RESEARCH, INC.

Client ID: **MW-1H**
Site: Yonkers Waterfront

Lab Sample No: **73507**
Lab Job No: **F821**

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6295.d

Matrix: WATER
Level: LOW
Sample Volume: 840 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u>		<u>Quantitation</u>
	<u>Units: ug/l</u>		<u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND		1.2
1,3-Dichlorobenzene	ND		12
1,4-Dichlorobenzene	ND		12
1,2-Dichlorobenzene	ND		12
bis(2-chloroisopropyl) ether	ND		12
N-Nitroso-di-n-propylamine	ND		1.2
Hexachloroethane	ND		1.2
Nitrobenzene	ND		1.2
Isophorone	ND		12
bis(2-Chloroethoxy) methane	ND		12
1,2,4-Trichlorobenzene	ND		1.2
Naphthalene	ND		12
4-Chloroaniline	ND		12
Hexachlorobutadiene	ND		2.4
2-Methylnaphthalene	ND		12
Hexachlorocyclopentadiene	ND		12
2-Chloronaphthalene	ND		12
2-Nitroaniline	ND		24
Dimethylphthalate	ND		12
Acenaphthylene	ND		12
2,6-Dinitrotoluene	ND		2.4
3-Nitroaniline	ND		24
Acenaphthene	ND		12
Dibenzofuran	ND		12
2,4-Dinitrotoluene	ND		2.4
Diethylphthalate	ND		12
4-Chlorophenyl-phenylether	ND		12
Fluorene	ND		12
4-Nitroaniline	ND		24
N-Nitrosodiphenylamine	ND		12
4-Bromophenyl-phenylether	ND		12
Hexachlorobenzene	ND		1.2
Phenanthrene	ND		12
Anthracene	ND		12

ENVIROTECH RESEARCH, INC.

Client ID: MW-1H
Site: Yonkers Waterfront

Lab Sample No: 73507
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6295.d

Matrix: WATER
Level: LOW
Sample Volume: 840 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u>		<u>Quantitation</u>
	<u>Units: ug/l</u>		<u>Limit</u>
Carbazole	ND		12
Di-n-butylphthalate	ND		12
Fluoranthene	ND		12
Pyrene	ND		12
Butylbenzylphthalate	ND		12
3,3'-Dichlorobenzidine	ND		24
Benzo(a)anthracene	ND		1.2
Chrysene	ND		12
bis(2-Ethylhexyl)phthalate	ND		12
Di-n-octylphthalate	ND		12
Benzo(b)fluoranthene	ND		1.2
Benzo(k)fluoranthene	ND		1.2
Benzo(a)pyrene	ND		1.2
Indeno(1,2,3-cd)pyrene	ND		1.2
Dibenz(a,h)anthracene	ND		1.2
Benzo(g,h,i)perylene	ND		12

ENVIROTECH RESEARCH, INC.

Client ID: MW-1H
Site: Yonkers Waterfront

Lab Sample No: 73507
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6295.d

Matrix: WATER
Level: LOW
Sample Volume: 840 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-1H
Site: Yonkers Waterfront

Lab Sample ID: 73507
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 760 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009067.d
Rear File ID: pr009067.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/wipe</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016	ND		0.66	R
Aroclor-1221	ND		0.66	R
Aroclor-1232	ND		0.66	R
Aroclor-1242	ND		0.66	R
Aroclor-1248	ND		0.66	R
Aroclor-1254	ND		0.66	R
Aroclor-1260	ND		0.66	R
Aroclor-1262	ND		0.66	R
Aroclor-1268	ND		0.66	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-1H
Site: Yonkers Waterfront

Lab Sample No: 73507
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	45200	58.2		P
Antimony	ND	4.6	N	P
Arsenic	26.2	3.8		P
Barium	339	1.4		P
Beryllium	2.8	0.20		P
Cadmium	ND	0.40		P
Calcium	166000	42.2		P
Chromium	121	1.0		P
Cobalt	32.6	1.2	B	P
Copper	270	3.5		P
Iron	116000	41.5		P
Lead	386	12.5		P
Magnesium	117000	40.3		P
Manganese	2120	1.1	N	P
Mercury	0.64	0.10	N	CV
Nickel	63.9	2.1		P
Potassium	48100	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	806000	2130		P
Thallium	ND	4.8		P
Vanadium	126	1.9		P
Zinc	985	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Site: Yonkers Waterfront

Lab Job No: F821

Date Sampled: 7/24/98

Date Received: 7/24/98

Matrix: WATER

Date Analyzed: 7/25/98

QA Batch: 1038

TURBIDITY

<u>Envirotech Sample #</u>	<u>Client ID</u>	<u>Dilution Factor</u>	<u>Analytical Result Units: NTU</u>
73501	MW-2H	20	460
73502	MW-2HA	25	625
73505	MW-2I	25	450
73506	MW-1I	25	875
73507	MW-1H	50	1050

Quantitation Limit for Turbidity is 0.5 NTU for an undiluted sample.

ENVIROTECH RESEARCH, INC.

Client ID: MW-2H-Dis
Site: Yonkers Waterfront

Lab Sample No: 73508
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	62.1	1.4	B	P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	133000	42.2		P
Chromium	ND	1.0		P
Cobalt	1.4	1.2	B	P
Copper	ND	3.5		P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	74400	40.3		P
Manganese	359	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	2.4	2.1	B	P
Potassium	22600	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	412000	2130		P
Thallium	ND	4.8		P
Vanadium	3.5	1.9	B	P
Zinc	26.7	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: MW-2HA-Dis
Site: Yonkers Waterfront

Lab Sample No: 73509
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	62.0	1.4	B	P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	134000	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	75400	40.3		P
Manganese	366	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	ND	2.1		P
Potassium	22300	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	384000	2130		P
Thallium	ND	4.8		P
Vanadium	4.8	1.9	B	P
Zinc	29.1	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank-Dis
Site: Yonkers Waterfront

Lab Sample No: 73510
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	ND	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	ND	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	ND	40.3		P
Manganese	ND	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	ND	2.1		P
Potassium	388	300	B	P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	ND	426		P
Thallium	ND	4.8		P
Vanadium	ND	1.9		P
Zinc	8.7	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: MW-1H-Dis
Site: Yonkers Waterfront

Lab Sample No: 73513
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	76.1	1.4	B	P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	135000	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	4.6	3.5	B	P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	128000	40.3		P
Manganese	15.7	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	3.3	2.1	B	P
Potassium	41500	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	896000	2130		P
Thallium	ND	4.8		P
Vanadium	2.3	1.9	B	P
Zinc	12.2	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE OF

Special Instructions DISSOLVED METALS TO BE LAB FILTERED.

Relinquished by	Company	Date / Time	Received by	Company
1) <i>Ken A. Bailey</i>	AKRF, INC.	7-24-98 / 13:00	1) <i>[Signature]</i>	ENVIRO-TECH
Relinquished by	Company <th>Date / Time</th> <th>Received by</th> <th>Company</th>	Date / Time	Received by	Company
2) <i>[Signature]</i>	ENVIRO-TECH	7/24/98 1830	2) <i>[Signature]</i>	ENVIRAL
Relinquished by	Company <th>Date / Time</th> <th>Received by</th> <th>Company</th>	Date / Time	Received by	Company
3) <i>[Signature]</i>			3)	
Relinquished by	Company <th>Date / Time</th> <th>Received by</th> <th>Company</th>	Date / Time	Received by	Company
4) <i>[Signature]</i>			4)	

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).



ENVIROTECH RESEARCH, INC.

Client ID: SS_Parcel-H
Site: Yonkers Waterfront

Lab Sample No: 74841
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/04/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5994.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 2

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Phenol	ND	340
2-Chlorophenol	ND	340
2-Methylphenol	ND	340
4-Methylphenol	12 J	340
2-Nitrophenol	ND	340
2,4-Dimethylphenol	ND	340
2,4-Dichlorophenol	ND	340
4-Chloro-3-methylphenol	ND	340
2,4,6-Trichlorophenol	ND	340
2,4,5-Trichlorophenol	ND	340
2,4-Dinitrophenol	ND	1400
4-Nitrophenol	ND	1400
4,6-Dinitro-2-methylphenol	ND	1400
Pentachlorophenol	ND	1400

ENVIROTECH RESEARCH, INC.

Client ID: SS_Parcel-H
Site: Yonkers Waterfront

Lab Sample No: 74841
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/04/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5994.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 2

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg
bis(2-Chloroethyl) ether	ND		34
1,3-Dichlorobenzene	ND		340
1,4-Dichlorobenzene	11	J	340
1,2-Dichlorobenzene	ND		340
bis(2-chloroisopropyl) ether	ND		340
N-Nitroso-di-n-propylamine	ND		34
Hexachloroethane	ND		34
Nitrobenzene	ND		34
Isophorone	ND		340
bis(2-Chloroethoxy) methane	ND		340
1,2,4-Trichlorobenzene	ND		34
Naphthalene	47	J	340
4-Chloroaniline	ND		340
Hexachlorobutadiene	ND		68
2-Methylnaphthalene	42	J	340
Hexachlorocyclopentadiene	ND		340
2-Chloronaphthalene	ND		340
2-Nitroaniline	ND		680
Dimethylphthalate	ND		340
Acenaphthylene	65	J	340
2,6-Dinitrotoluene	ND		68
3-Nitroaniline	ND		680
Acenaphthene	74	J	340
Dibenzofuran	54	J	340
2,4-Dinitrotoluene	ND		68
Diethylphthalate	ND		340
4-Chlorophenyl-phenylether	ND		340
Fluorene	86	J	340
4-Nitroaniline	ND		680
N-Nitrosodiphenylamine	ND		340
4-Bromophenyl-phenylether	ND		340
Hexachlorobenzene	ND		34
Phenanthrene	780		340
Anthracene	210	J	340

ENVIROTECH RESEARCH, INC.

Client ID: SS Parcel-H
Site: Yonkers Waterfront

Lab Sample No: 74841
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/04/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5994.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 2

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Carbazole	80 J	340
Di-n-butylphthalate	ND	340
Fluoranthene	1200	340
Pyrene	1200	340
Butylbenzylphthalate	ND	340
3,3'-Dichlorobenzidine	ND	680
Benzo(a)anthracene	680	34
Chrysene	780	340
bis(2-Ethylhexyl)phthalate	170 J	340
Di-n-octylphthalate	ND	340
Benzo(b)fluoranthene	920	34
Benzo(k)fluoranthene	330	34
Benzo(a)pyrene	580	34
Indeno(1,2,3-cd)pyrene	220	34
Dibenz(a,h)anthracene	57	34
Benzo(g,h,i)perylene	180 J	340

ENVIROTECH RESEARCH, INC.

Client ID: SS Parcel-H
Site: Yonkers Waterfront

Lab Sample No: 74841
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/04/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5994.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 2.1

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C17H10O Ketone/Unknown	24.16	350	
2. Unknown	25.32	560	
3. Unknown Alkane	26.00	360	
4. Unknown	26.33	600	
5. Unknown Alkane	26.81	830	
6. Unknown	26.86	1400	
7. C20H12 PAH	27.18	560	
8. Unknown	28.28	320	
9. Unknown Alkane	28.93	920	
10. Unknown	29.05	310	
11. Unknown Alkane/Unknown	32.05	490	
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

6700

ENVIROTECH RESEARCH, INC.

Client ID: SS_Parcel-H
Site: Yonkers Waterfront

Lab Sample ID: 74841
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/05/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC4.i
Front File ID: wf014466.d
Rear File ID: wr014466.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 2

ORGANOCHLORINE PESTICIDES - GC/ECD METHOD 8081A

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aldrin		ND	6.8	R
alpha-BHC		ND	6.8	R
beta-BHC		ND	6.8	R
delta-BHC		ND	6.8	R
gamma-BHC (Lindane)		ND	6.8	R
Chlordane		ND	6.8	R
4,4'-DDD		ND	68	R
4,4'-DDE	13	ND	6.8	R
4,4'-DDT	46		6.8	F
Dieldrin		ND	6.8	R
Endosulfan I		ND	6.8	R
Endosulfan II		ND	6.8	R
Endosulfan sulfate		ND	6.8	R
Endrin		ND	6.8	R
Endrin aldehyde		ND	6.8	R
Endrin ketone		ND	6.8	R
Heptachlor		ND	6.8	R
Heptachlor epoxide		ND	6.8	R
Methoxychlor	11	P*	6.8	R
Toxaphene		ND	130	R

ENVIROTECH RESEARCH, INC.

Client ID: SS_Parcel-H
Site: Yonkers Waterfront

Lab Sample ID: 74841
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/07/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC4.i
Front File ID: wf014533.d
Rear File ID: wr014533.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 2

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016		ND	68	R
Aroclor-1221		ND	68	R
Aroclor-1232		ND	68	R
Aroclor-1242		ND	68	R
Aroclor-1248		ND	68	R
Aroclor-1254		ND	68	R
Aroclor-1260		ND	68	R
Aroclor-1262	160	ND	68	F
Aroclor-1268		ND	68	R

ENVIROTECH RESEARCH, INC.

Client ID: SS Parcel-H
Site: Yonkers Waterfront

Lab Sample No: 74841
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98

Matrix: SOLID
Level: LOW
% Moisture: 2.1

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Aluminum	12500	11.9		P
Antimony	ND	0.94	N	P
Arsenic	9.6	0.78		P
Barium	80.5	0.29		P
Beryllium	0.54	0.041		P
Cadmium	ND	0.082		P
Calcium	4440	8.6	N	P
Chromium	19.4	0.20		P
Cobalt	5.9	0.25	B	P
Copper	37.7	0.72		P
Iron	17000	8.5		P
Lead	135	0.51	N	P
Magnesium	3450	8.2	N	P
Manganese	435	0.22		P
Mercury	1.5	0.017		CV
Nickel	14.1	0.43		P
Potassium	818	61.3	B	P
Selenium	ND	0.98		P
Silver	ND	0.29		P
Sodium	893	87.0	B	P
Thallium	ND	0.98		P
Vanadium	31.4	0.39		P
Zinc	106	0.92	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)

M Column - Method Code (See Section 2 of Report)

7777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

PAGE / OF

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Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) Ken O. Roiley	NICRE, INC.	1-30-88 10 AM	1) Ned Huby	ERT
Relinquished by	Company	Date / Time	Received by	Company
2) Ned Huby	ERI	1-31-88 11:30	2) ERI	ERTech
Relinquished by	Company	Date / Time	Received by	Company
3)			3)	
Relinquished by	Company	Date / Time	Received by	Company
4)			4)	

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).



ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: Yonkers Waterfront

Lab Sample ID: 92903
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 11/04/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 520 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: zf035126.d
Rear File ID: zr035126.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.96	R
Aroclor-1221	ND	0.96	R
Aroclor-1232	ND	0.96	R
Aroclor-1242	ND	0.96	R
Aroclor-1248	ND	0.96	R
Aroclor-1254	ND	0.96	R
Aroclor-1260	ND	0.96	R
Aroclor-1262	ND	0.96	R
Aroclor-1268	ND	0.96	R

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 92903
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	84.1		P
Antimony	ND	4.4		P
Arsenic	ND	2.8		P
Barium	ND	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	ND	82.0		P
Chromium	ND	1.1		P
Cobalt	ND	1.3		P
Copper	ND	2.9		P
Iron	ND	47.5		P
Lead	ND	2.0		P
Magnesium	ND	69.7		P
Manganese	ND	0.90		P
Mercury	ND	0.10		CV
Nickel	ND	2.1		P
Potassium	ND	245	N	P
Selenium	ND	4.2		P
Silver	ND	1.4		P
Sodium	ND	483		P
Thallium	ND	4.5		P
Vanadium	ND	2.6		P
Zinc	12.4	3.9	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-10AH
Site: Yonkers Waterfront

Lab Sample ID: 92904
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/31/98
Date Analyzed: 11/04/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005428.d
Rear File ID: or005428.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 2.0
% Moisture: 13

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016		ND	150	
Aroclor-1221		ND	150	R
Aroclor-1232		ND	150	R
Aroclor-1242		ND	150	R
Aroclor-1248		ND	150	R
Aroclor-1254	2800	ND	150	R
Aroclor-1260	1600		150	F
Aroclor-1262		ND	150	R
Aroclor-1268	360		150	F

ENVIROTECH RESEARCH, INC.

Client ID: TP-10AH
Site: Yonkers Waterfront

Lab Sample No: 92904
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: SOLID
Level: LOW
% Moisture: 13.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5990	19.4		P
Antimony	5.0	1.0	N	P
Arsenic	12.8	0.65	N	P
Barium	278	0.32	N	P
Beryllium	0.39	0.046	BN	P
Cadmium	2.1	0.092	N	P
Calcium	15900	18.9	N*	P
Chromium	27.2	0.25	N	P
Cobalt	6.5	0.30	BN	P
Copper	2980	0.67	N*	P
Iron	23500	10.9		P
Lead	2820	0.46	N	P
Magnesium	5330	16.1	N*	P
Manganese	281	0.21	N	P
Mercury	0.35	0.019		CV
Nickel	29.3	0.48	N	P
Potassium	2180	56.5	*	P
Selenium	ND	0.97	N	P
Silver	7.0	0.32	N	P
Sodium	150	111	B	P
Thallium	ND	1.0	N	P
Vanadium	22.6	0.60	N*	P
Zinc	1530	0.90		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-11H
Site: Yonkers Waterfront

Lab Sample ID: 92905
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/31/98
Date Analyzed: 11/03/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005402.d
Rear File ID: or005402.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 31

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	
			<u>Units: ug/kg</u>	<u>Column</u>
Aroclor-1016		ND	98	R
Aroclor-1221		ND	98	R
Aroclor-1232		ND	98	R
Aroclor-1242		ND	98	R
Aroclor-1248		ND	98	R
Aroclor-1254	700		98	F
Aroclor-1260	740		98	R
Aroclor-1262		ND	98	R
Aroclor-1268		ND	98	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-11H
Site: Yonkers Waterfront

Lab Sample No: 92905
Lab Job No: 1594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: SOLID
Level: LOW
% Moisture: 31.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	4890	24.5		P
Antimony	12.8	1.3	N	P
Arsenic	5.5	0.82	N	P
Barium	40.8	0.41	BN	P
Beryllium	0.28	0.058	BN	P
Cadmium	0.39	0.12	BN	P
Calcium	5080	23.9	N*	P
Chromium	17.8	0.32	N	P
Cobalt	6.8	0.38	BN	P
Copper	2660	0.84	N*	P
Iron	14300	13.8		P
Lead	15100	5.8	N	P
Magnesium	5140	20.3	N*	P
Manganese	237	0.26	N	P
Mercury	0.10	0.024		CV
Nickel	21.3	0.61	N	P
Potassium	797	71.4	B*	P
Selenium	ND	1.2	N	P
Silver	3.6	0.41	N	P
Sodium	529	141	B	P
Thallium	ND	1.3	N	P
Vanadium	16.4	0.76	N*	P
Zinc	911	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-12H
Site: Yonkers Waterfront

Lab Sample ID: 92906
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/31/98
Date Analyzed: 11/03/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005403.d
Rear File ID: or005403.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 13

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016		ND	77	
Aroclor-1221		ND	77	R
Aroclor-1232		ND	77	R
Aroclor-1242		ND	77	R
Aroclor-1248		ND	77	R
Aroclor-1254		ND	77	R
Aroclor-1260	280	77	77	R
Aroclor-1262		ND	77	R
Aroclor-1268		ND	77	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-12H
Site: Yonkers Waterfront

Lab Sample No: 92906
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: SOLID
Level: LOW
% Moisture: 13.2

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Aluminum	6690	19.4		P
Antimony	6.5	1.5	N	P
Arsenic	32.3	0.97	N	P
Barium	433	0.32	N	P
Beryllium	0.40	0.046	BN	P
Cadmium	40.2	0.14	N	P
Calcium	19600	18.9	N*	P
Chromium	20.3	0.25	N	P
Cobalt	8.9	0.30	BN	P
Copper	429	1.0	N*	P
Iron	46200	10.9		P
Lead	453	0.69	N	P
Magnesium	6430	16.1	N*	P
Manganese	435	0.21	N	P
Mercury	2.1	0.038		CV
Nickel	33.4	0.48	N	P
Potassium	1370	56.5	*	P
Selenium	2.2	1.5	N	P
Silver	ND	0.32	N	P
Sodium	334	111	B	P
Thallium	ND	1.6	N	P
Vanadium	78.5	0.60	N*	P
Zinc	3600	0.90		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-13H
Site: Yonkers Waterfront

Lab Sample ID: 92907
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/31/98
Date Analyzed: 11/04/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005427.d
Rear File ID: or005427.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 5.0
% Moisture: 20

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016		ND	420	
Aroclor-1221		ND	420	R
Aroclor-1232		ND	420	R
Aroclor-1242		ND	420	R
Aroclor-1248		ND	420	R
Aroclor-1254		ND	420	R
Aroclor-1260	5200		420	F
Aroclor-1262	2700		420	R
Aroclor-1268		ND	420	R
		ND	420	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-13H
Site: Yonkers Waterfront

Lab Sample No: 92907
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: SOLID
Level: LOW
% Moisture: 19.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	6700	20.9		P
Antimony	35.2	1.6	N	P
Arsenic	31.8	1.0	N	P
Barium	575	0.35	N	P
Beryllium	0.44	0.050	BN	P
Cadmium	9.1	0.15	N	P
Calcium	19000	20.4	N*	P
Chromium	63.3	0.27	N	P
Cobalt	12.4	0.32	N	P
Copper	12900	7.2	N*	P
Iron	63700	11.8		P
Lead	19200	5.0	N	P
Magnesium	4890	17.3	N*	P
Manganese	675	0.22	N	P
Mercury	0.41	0.021		CV
Nickel	61.1	0.52	N	P
Potassium	1030	61.0	B*	P
Selenium	1.9	1.6	N	P
Silver	41.8	0.35	N	P
Sodium	537	120	B	P
Thallium	ND	1.7	N	P
Vanadium	26.9	0.65	N*	P
Zinc	10500	9.7		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-14H
Site: Yonkers Waterfront

Lab Sample ID: 92908
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/31/98
Date Analyzed: 11/04/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005425.d
Rear File ID: or005425.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 16

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		80	R
Aroclor-1221	ND		80	R
Aroclor-1232	ND		80	R
Aroclor-1242	ND		80	R
Aroclor-1248	ND		80	R
Aroclor-1254	ND		80	R
Aroclor-1260	ND		80	R
Aroclor-1262	ND		80	R
Aroclor-1268	ND		80	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-14H
Site: Yonkers Waterfront

Lab Sample No: 92908
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: SOLID
Level: LOW
% Moisture: 16.5

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Aluminum	1390	20.1		P
Antimony	1.9	1.1	BN	P
Arsenic	37.8	0.67	N	P
Barium	125	0.34	N	P
Beryllium	0.38	0.048	BN	P
Cadmium	ND	0.096	N	P
Calcium	1940	19.6	N*	P
Chromium	10.8	0.26	N	P
Cobalt	6.1	0.31	BN	P
Copper	31.3	0.69	N*	P
Iron	39500	11.4		P
Lead	49.6	0.48	N	P
Magnesium	132	16.7	BN*	P
Manganese	25.9	0.22	N	P
Mercury	0.08	0.020		CV
Nickel	9.6	0.50	BN	P
Potassium	738	58.7	B*	P
Selenium	4.3	1.0	N	P
Silver	ND	0.34	N	P
Sodium	ND	116		P
Thallium	ND	1.1	N	P
Vanadium	26.5	0.62	N*	P
Zinc	21.1	0.93		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-15H
Site: Yonkers Waterfront

Lab Sample ID: 92909
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/31/98
Date Analyzed: 11/04/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005406.d
Rear File ID: or005406.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 5

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	Analytical Results Units: ug/kg (Dry Weight)	Quantitation	
		Limit Units: ug/kg	Column
Aroclor-1016	ND	70	R
Aroclor-1221	ND	70	R
Aroclor-1232	ND	70	R
Aroclor-1242	ND	70	R
Aroclor-1248	ND	70	R
Aroclor-1254	ND	70	R
Aroclor-1260	ND	70	R
Aroclor-1262	ND	70	R
Aroclor-1268	ND	70	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-15H
Site: Yonkers Waterfront

Lab Sample No: 92909
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: SOLID
Level: LOW
% Moisture: 4.8

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	3290	17.7		P
Antimony	ND	0.92	N	P
Arsenic	ND	0.59	N	P
Barium	12.4	0.29	BN	P
Beryllium	0.39	0.042	BN	P
Cadmium	ND	0.084	N	P
Calcium	2460	17.2	N*	P
Chromium	3.9	0.23	N	P
Cobalt	1.6	0.27	BN	P
Copper	10.9	0.61	N*	P
Iron	10400	10.0		P
Lead	7.6	0.42	N	P
Magnesium	1160	14.6	N*	P
Manganese	180	0.19	N	P
Mercury	0.04	0.018		CV
Nickel	3.2	0.44	BN	P
Potassium	1880	51.5	*	P
Selenium	ND	0.88	N	P
Silver	ND	0.29	N	P
Sodium	ND	101		P
Thallium	ND	0.95	N	P
Vanadium	7.5	0.55	N*	P
Zinc	79.4	0.82		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-16H
Site: Yonkers Waterfront

Lab Sample ID: 92910
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/31/98
Date Analyzed: 11/04/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005407.d
Rear File ID: or005407.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 9

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016		ND	73	R
Aroclor-1221		ND	73	R
Aroclor-1232		ND	73	R
Aroclor-1242		ND	73	R
Aroclor-1248		ND	73	R
Aroclor-1254		ND	73	R
Aroclor-1260	840	ND	73	R
Aroclor-1262		ND	73	R
Aroclor-1268		ND	73	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-16H
Site: Yonkers Waterfront

Lab Sample No: 92910
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: SOLID
Level: LOW
% Moisture: 8.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	8070	18.4		P
Antimony	ND	0.96	N	P
Arsenic	2.6	0.61	N	P
Barium	111	0.31	N	P
Beryllium	0.42	0.044	BN	P
Cadmium	ND	0.088	N	P
Calcium	9760	18.0	N*	P
Chromium	20.7	0.24	N	P
Cobalt	5.8	0.29	BN	P
Copper	156	0.64	N*	P
Iron	17000	10.4		P
Lead	285	0.44	N	P
Magnesium	4650	15.3	N*	P
Manganese	221	0.20	N	P
Mercury	1.2	0.018		CV
Nickel	17.1	0.46	N	P
Potassium	3360	53.8	*	P
Selenium	ND	0.92	N	P
Silver	ND	0.31	N	P
Sodium	148	106	B	P
Thallium	ND	0.99	N	P
Vanadium	23.8	0.57	N*	P
Zinc	213	0.86		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-17H
Site: Yonkers Waterfront

Lab Sample ID: 92911
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/31/98
Date Analyzed: 11/04/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005426.d
Rear File ID: or005426.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 9

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		74	R
Aroclor-1221	ND		74	R
Aroclor-1232	ND		74	R
Aroclor-1242	ND		74	R
Aroclor-1248	ND		74	R
Aroclor-1254	ND		74	R
Aroclor-1260	ND		74	R
Aroclor-1262	ND		74	R
Aroclor-1268	ND		74	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-17H
Site: Yonkers Waterfront

Lab Sample No: 92911
Lab Job No: 1594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: SOLID
Level: LOW
% Moisture: 9.4

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Aluminum	3490	18.6		P
Antimony	ND	0.97	N	P
Arsenic	1.4	0.62	N	P
Barium	17.9	0.31	BN	P
Beryllium	0.49	0.044	N	P
Cadmium	ND	0.088	N	P
Calcium	2400	18.1	N*	P
Chromium	7.3	0.24	N	P
Cobalt	1.9	0.29	BN	P
Copper	16.0	0.64	N*	P
Iron	9480	10.5		P
Lead	18.1	0.44	N	P
Magnesium	1600	15.4	N*	P
Manganese	154	0.20	N	P
Mercury	1.3	0.018		CV
Nickel	5.3	0.46	BN	P
Potassium	1770	54.1	*	P
Selenium	ND	0.93	N	P
Silver	ND	0.31	N	P
Sodium	ND	107		P
Thallium	ND	0.99	N	P
Vanadium	7.7	0.57	N*	P
Zinc	82.1	0.86		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-10AH-GW
Site: Yonkers Waterfront

Lab Sample ID: 92912
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 11/04/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 400 ml
Extract Final Volume: 2.5 ml
Dilution Factor: 1.0
Front File ID: zf035127.d
Rear File ID: zr035127.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.62	R
Aroclor-1221	ND	0.62	R
Aroclor-1232	ND	0.62	R
Aroclor-1242	ND	0.62	R
Aroclor-1248	ND	0.62	R
Aroclor-1254	ND	0.62	R
Aroclor-1260	ND	0.62	R
Aroclor-1262	ND	0.62	R
Aroclor-1268	ND	0.62	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-10AH-GW
Site: Yonkers Waterfront

Lab Sample No: 92912
Lab Job No: 1594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	84.1		P
Antimony	ND	4.4		P
Arsenic	ND	2.8		P
Barium	563	1.4		P
Beryllium	ND	0.20		P
Cadmium	1.6	0.40	B	P
Calcium	168000	82.0		P
Chromium	ND	1.1		P
Cobalt	1.5	1.3	B	P
Copper	45.5	2.9		P
Iron	97.1	47.5	B	P
Lead	10.5	2.0		P
Magnesium	144000	69.7		P
Manganese	11.8	0.90	B	P
Mercury	ND	0.10		CV
Nickel	10.5	2.1	B	P
Potassium	44800	245	N	P
Selenium	ND	4.2		P
Silver	ND	1.4		P
Sodium	1010000	2413		P
Thallium	ND	4.5		P
Vanadium	ND	2.6		P
Zinc	590	3.9		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-12H-GW
Site: Yonkers Waterfront

Lab Sample ID: 92913
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 11/04/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 960 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: zf035128.d
Rear File ID: zr035128.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.52	R
Aroclor-1221	ND	0.52	R
Aroclor-1232	ND	0.52	R
Aroclor-1242	ND	0.52	R
Aroclor-1248	ND	0.52	R
Aroclor-1254	ND	0.52	R
Aroclor-1260	ND	0.52	R
Aroclor-1262	ND	0.52	R
Aroclor-1268	ND	0.52	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-12H-GW
Site: Yonkers Waterfront

Lab Sample No: 92913
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	84.1		P
Antimony	ND	4.4		P
Arsenic	ND	2.8		P
Barium	260	1.4		P
Beryllium	ND	0.20		P
Cadmium	1.3	0.40	B	P
Calcium	147000	82.0		P
Chromium	ND	1.1		P
Cobalt	13.8	1.3	B	P
Copper	65.3	2.9		P
Iron	73.0	47.5	B	P
Lead	6.7	2.0		P
Magnesium	51900	69.7		P
Manganese	52.5	0.90		P
Mercury	ND	0.10		CV
Nickel	13.6	2.1	B	P
Potassium	13700	245	N	P
Selenium	ND	4.2		P
Silver	ND	1.4		P
Sodium	223000	483		P
Thallium	ND	4.5		P
Vanadium	8.9	2.6	B	P
Zinc	568	3.9		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-13H-GW
Site: Yonkers Waterfront

Lab Sample ID: 92914
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 11/04/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 970 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: zf035129.d
Rear File ID: zr035129.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.52	R
Aroclor-1221	ND	0.52	R
Aroclor-1232	ND	0.52	R
Aroclor-1242	ND	0.52	R
Aroclor-1248	ND	0.52	R
Aroclor-1254	ND	0.52	R
Aroclor-1260	ND	0.52	R
Aroclor-1262	ND	0.52	R
Aroclor-1268	ND	0.52	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-13H-GW
Site: Yonkers Waterfront

Lab Sample No: 92914
Lab Job No: 1594

Date Sampled: 10/28/98
Date Received: 10/28/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	84.1		P
Antimony	11.0	4.4		P
Arsenic	9.5	2.8		P
Barium	747	1.4		P
Beryllium	ND	0.20		P
Cadmium	2.4	0.40	B	P
Calcium	208000	82.0		P
Chromium	ND	1.1		P
Cobalt	7.5	1.3	B	P
Copper	32.3	2.9		P
Iron	ND	47.5		P
Lead	2.3	2.0	B	P
Magnesium	209000	697		P
Manganese	405	0.90		P
Mercury	ND	0.10		CV
Nickel	26.5	2.1	B	P
Potassium	70900	245	N	P
Selenium	ND	4.2		P
Silver	ND	1.4		P
Sodium	1700000	4827		P
Thallium	ND	4.5		P
Vanadium	ND	2.6		P
Zinc	946	3.9		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Site: YONKERS WATERFRONT

Lab Job No: I594

Date Sampled: 10/28/98

Date Extracted: 11/02/98

Date Received: 10/28/98

Date Analyzed: 11/03/98

Matrix: ORGANIC

GC/FID FINGERPRINT

Envirotech
Sample #

Client ID

Product I.D.

92915

TP-11H-Drum

Most closely resembles
a #2 Fuel oil.

ENVIROTECH RESEARCH, INC.

Client ID: TP-11H-Drum
Site: Yonkers Waterfront

Lab Sample ID: 92915
Lab Job No: I594

Date Sampled: 10/28/98
Date Received: 10/28/98
Date Extracted: 10/29/98
Date Analyzed: 10/30/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of005338.d
Rear File ID: or005338.d

Matrix: OIL
Level: HIGH
Sample Weight: 1 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u>	<u>Quantitation</u>	
		<u>Limit</u> <u>Units: ug/kg</u>	<u>Column</u>
Aroclor-1016	ND	1000	R
Aroclor-1221	ND	1000	R
Aroclor-1232	ND	1000	R
Aroclor-1242	ND	1000	R
Aroclor-1248	ND	1000	R
Aroclor-1254	ND	1000	R
Aroclor-1260	ND	1000	R
Aroclor-1262	ND	1000	R
Aroclor-1268	ND	1000	R



No. 62701

CHAIN OF CUSTODY

FIELD BOOK:

Pg. 1 of 1

Client: AKRF		Project Name/no.: Yonkers 70004		Client Contact: KEVIN REILLY		STL Contact:		TAT: 1wk(2wks 3wk, OTHER)		Proj. Type: NJPDES, NPDES, ISRA CLP, CERCLA, RCRA, LIST ACO, MOA, OTHER		Protocol: CLP SW846, EPA 600 DW, OTHER		Reporting Type: NJ Reg Format, NJ Reduced Format, CLP Level II, Level I (Data Sum), Other	
Client ID (10 CHAR)		Date		Time		(13) Mix									
FIELD BLANK		10-28		3pm		AR		2		X		X		X	
TP - 10A H		10-28		9am		SO		1		X		X		X	
TP - 11H		10-28		930m		SO		1		X		X		X	
TP - 12H		10-28		1020am		SO		1		X		X		X	
TP - 13H		10-28		1220pm		SO		1		X		X		X	
TP - 14H		10-28		130pm		SO		1		X		X		X	
TP - 15H		10-28		1520pm		SO		1		X		X		X	
TP - 16H		10-28		215pm		SO		1		X		X		X	
TP - 17H		10-28		45pm		SD		1		X		X		X	
TP - 10AH-GW		10-28		1010am		AR		2		X		X		X	
TP - 12H-GW		10-28		355pm		AR		2		X		X		X	
TP - 13H-GW		10-28		1220pm		AR		2		X		X		X	
TP - 11H DEWM		10-28		10EDam		AR		1		X		X		X	
COMMENTS: (Please include hazards on site.)															
- GROUND WATER SAMPLES WERE FIELD FILTERS															
Print Name and Company		Signature		Custody Seal # (s)		Date/Time									
Sampled By: Kevin Reilly		Kevin O'Reilly				10-28-98 3:15									
Received By: [Signature]		[Signature]				10-28-98/1530									
Relinquished By: STE JACOBSON-E-ENGINEER		[Signature]				10-28-98/1700									
Received By: R PICHARD		R Pichard				10/29/98									
Relinquished By:															
Received By:															
Mix = Matrix of Sample. (AI=Air, AQ=Aqueous, LE=Leachate, ML=Misc Liquid, MS=Misc Solids, OIL, SE=Sediment, SL=Sludge, SO=Soil)															

(Copies: White and yellow copies should accompany samples to STL. The pink copy should be retained by the client.) See reverse for directions.



TABLE VO-1.0
7099-0172A
AKRF-WHITE PLAINS
TCL VOLATILE ORGANICS

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	TP-11A-H		
Lab Sample I.D.	VLKKH	990172A-02		Quant.
Method Blank I.D.	VLKKH	VLKKH		Limits
Quant. Factor	1.00	1.23		with no
				Dilution
Chloromethane	U	U		10
Eromomethane	U	U		10
Vinyl Chloride	U	U		10
Chloroethane	U	U		10
Methylene Chloride	U	U		5.0
Acetone	U	9J		10
Carbon Disulfide	U	U		5.0
Vinyl Acetate	U	U		10
1,1-Dichloroethene	U	U		5.0
1,1-Dichloroethane	U	U		5.0
1,2-Dichloroethene (total)	U	U		5.0
Chloroform	U	U		5.0
1,2-Dichloroethane	U	U		5.0
2-Butanone	U	U		5.0
1,1,1-Trichloroethane	U	U		10
Carbon Tetrachloride	U	U		5.0
Bromodichloromethane	U	U		5.0
1,2-Dichloropropane	U	U		5.0
cis-1,3-Dichloropropene	U	U		5.0
Trichloroethene	U	U		5.0
Dibromochloromethane	U	U		5.0
1,1,2-Trichloroethane	U	U		5.0
Benzene	U	U		5.0
trans-1,3-Dichloropropene	U	U		5.0
Bromoform	U	U		5.0
4-Methyl-2-Pentanone	U	U		5.0
2-Hexanone	U	U		10
Tetrachloroethene	U	U		10
Toluene	U	U		5.0
1,1,2,2-Tetrachloroethane	U	U		5.0
Chlorobenzene	U	U		5.0
Ethylbenzene	U	U		5.0
Styrene	U	U		5.0
Xylene (total)	U	U		5.0
Date Received		01/28/99		
Date Extracted	N/A	N/A		
Date Analyzed	02/02/99	02/02/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-2.0
7099-0172A
AKRF-WHITE PLAINS
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Soil

Related Method Blank: VBLKXH

Lab Sample Id: VBLKXH Client Sample Id: Method Blank

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
NONE DETECTED			

Lab Sample Id: 990172A-02 Client Sample Id: TP-11A-H

<u>CAS#</u>	<u>Compound</u>	<u>RT</u>	<u>Estimated Conc., ug/Kg</u>
	UNKNOWN	22.91	280J
	UNKNOWN	24.89	270J
	UNKNOWN	23.06	240J
	UNKNOWN	27.74	220J
	UNKNOWN	24.39	190J
	UNKNOWN	22.48	160J
	UNKNOWN	23.17	150J
	UNKNOWN	23.87	140J
	UNKNOWN	28.51	130J
	UNKNOWN	23.98	120J

See Appendix for qualifier definitions

TABLE AS-1.0
7099-0172A
AKRF-WHITE PLAINS
RCRA METALS

Soil

All values are mg/Kg dry weight basis.

Client Sample I.D.	TP-10B-H	TP-11A-H	TP-11B-H	TP-13A-H
Lab Sample I.D.	990172A-01	990172A-02	990172A-03	990172A-04
Arsenic	32.6	10.1	12.1	17.9
Barium	454.	134.	161.	430.
Cadmium	3.3N	0.19UN	0.20UN	4.8N
Chromium	19.8N	11.6N	10.8N	44.7N
Lead	1430	1490	585.	8100
Mercury	0.53	0.48	0.60	0.53
Selenium	1.8	0.61B	1.0	0.58U
Silver	4.2	0.25B	0.20U	69.2

See Appendix for qualifier definitions

TABLE AS-1.1
7099-0172A
AKRF-WHITE PLAINS
RCRA METALS

Soil

All values are mg/Kg dry weight basis.

Client Sample I.D.	TP-18-H	TP-19-H	TP-13B-H	
Lab Sample I.D.	990172A-05	990172A-06	990172A-07	
Arsenic	3.1	7.2	9.0	
Barium	31.6B	109.	129.	
Cadmium	0.18UN	0.21UN	4.0N	
Chromium	9.8N	16.5N	74.2N	
Lead	19.4	120.	12200	
Mercury	0.094B	0.22	0.31	
Selenium	0.85B	1.0B	0.62U	
Silver	0.18U	0.21U	11.4	

See Appendix for qualifier definitions



Severn Trent Laboratories
628 Route 10
Whippany NJ 07981

Tel: (973) 428-8181
Fax: (973) 428-5222

No. 62711

CHAIN OF CUSTODY

FIELD BOOK:

Pg 1 of 1

1	Client: AKRF	14	Bill To: AKRF, INC.	15	ANALYSIS REQUIRED	16	COMMENTS: (Please include hazards on site.)	17	Signature: Kevin Kelly	18	Date/Time: 1-27-99
2	Project Name/No.: YONKENS WATERFRONT	15	PO#	16	17	18	19	20	21	22	
3	Client Contact: Kevin Kelly	16		17	18	19	20	21	22	23	
4	STL Contact:	17		18	19	20	21	22	23	24	
5	TAT: 1wk, 3wk, OTHER	18		19	20	21	22	23	24	25	
6	Proj. Type: NPDES, NPDES, ISRA, CLP, CERCLA, RCRA, UST, ACO, MOA, OTHER	19		20	21	22	23	24	25	26	
7	Protocol: CLP, SW846, EPA 600 DW, OTHER	20		21	22	23	24	25	26	27	
8	Reporting Type: NJ Reg Format, NJ Reduced Format, CLP, Level II, Level I (Data-Sum), Other	21		22	23	24	25	26	27	28	
9	Client ID (10 CHAR):	22		23	24	25	26	27	28	29	
10	TP-110-B-H	23		24	25	26	27	28	29	30	
11	TP-111-A-H	24		25	26	27	28	29	30	31	
12	TP-112-B-H	25		26	27	28	29	30	31	32	
13	TP-13A-H	26		27	28	29	30	31	32	33	
14	TP-18-H	27		28	29	30	31	32	33	34	
15	TP-19-H	28		29	30	31	32	33	34	35	
16		29		30	31	32	33	34	35	36	
17		30		31	32	33	34	35	36	37	
18		31		32	33	34	35	36	37	38	
19		32		33	34	35	36	37	38	39	
20		33		34	35	36	37	38	39	40	
21		34		35	36	37	38	39	40	41	
22		35		36	37	38	39	40	41	42	
23		36		37	38	39	40	41	42	43	
24		37		38	39	40	41	42	43	44	
25		38		39	40	41	42	43	44	45	
26		39		40	41	42	43	44	45	46	
27		40		41	42	43	44	45	46	47	
28		41		42	43	44	45	46	47	48	
29		42		43	44	45	46	47	48	49	
30		43		44	45	46	47	48	49	50	
31		44		45	46	47	48	49	50	51	
32		45		46	47	48	49	50	51	52	
33		46		47	48	49	50	51	52	53	
34		47		48	49	50	51	52	53	54	
35		48		49	50	51	52	53	54	55	
36		49		50	51	52	53	54	55	56	
37		50		51	52	53	54	55	56	57	
38		51		52	53	54	55	56	57	58	
39		52		53	54	55	56	57	58	59	
40		53		54	55	56	57	58	59	60	
41		54		55	56	57	58	59	60	61	
42		55		56	57	58	59	60	61	62	
43		56		57	58	59	60	61	62	63	
44		57		58	59	60	61	62	63	64	
45		58		59	60	61	62	63	64	65	
46		59		60	61	62	63	64	65	66	
47		60		61	62	63	64	65	66	67	
48		61		62	63	64	65	66	67	68	
49		62		63	64	65	66	67	68	69	
50		63		64	65	66	67	68	69	70	
51		64		65	66	67	68	69	70	71	
52		65		66	67	68	69	70	71	72	
53		66		67	68	69	70	71	72	73	
54		67		68	69	70	71	72	73	74	
55		68		69	70	71	72	73	74	75	
56		69		70	71	72	73	74	75	76	
57		70		71	72	73	74	75	76	77	
58		71		72	73	74	75	76	77	78	
59		72		73	74	75	76	77	78	79	
60		73		74	75	76	77	78	79	80	
61		74		75	76	77	78	79	80	81	
62		75		76	77	78	79	80	81	82	
63		76		77	78	79	80	81	82	83	
64		77		78	79	80	81	82	83	84	
65		78		79	80	81	82	83	84	85	
66		79		80	81	82	83	84	85	86	
67		80		81	82	83	84	85	86	87	
68		81		82	83	84	85	86	87	88	
69		82		83	84	85	86	87	88	89	
70		83		84	85	86	87	88	89	90	
71		84		85	86	87	88	89	90	91	
72		85		86	87	88	89	90	91	92	
73		86		87	88	89	90	91	92	93	
74		87		88	89	90	91	92	93	94	
75		88		89	90	91	92	93	94	95	
76		89		90	91	92	93	94	95	96	
77		90		91	92	93	94	95	96	97	
78		91		92	93	94	95	96	97	98	
79		92		93	94	95	96	97	98	99	
80		93		94	95	96	97	98	99	100	
81		94		95	96	97	98	99	100	101	
82		95		96	97	98	99	100	101	102	
83		96		97	98	99	100	101	102	103	
84		97		98	99	100	101	102	103	104	
85		98		99	100	101	102	103	104	105	
86		99		100	101	102	103	104	105	106	
87		100		101	102	103	104	105	106	107	
88		101		102	103	104	105	106	107	108	
89		102		103	104	105	106	107	108	109	
90		103		104	105	106	107	108	109	110	
91		104		105	106	107	108	109	110	111	
92		105		106	107	108	109	110	111	112	
93		106		107	108	109	110	111	112	113	
94		107		108	109	110	111	112	113	114	
95		108		109	110	111	112	113	114	115	
96		109		110	111	112	113	114	115	116	
97		110		111	112	113	114	115	116	117	
98		111		112	113	114	115	116	117	118	
99		112		113	114	115	116	117	118	119	
100		113		114	115	116	117	118	119	120	
101		114		115	116	117	118	119	120	121	
102		115		116	117	118	119	120	121	122	
103		116		117	118	119	120	121	122	123	
104		117		118	119	120	121	122	123	124	
105		118		119	120	121	122	123	124	125	
106		119		120	121	122	123	124	125	126	
107		120		121	122	123	124	125	126	127	
108		121		122	123	124	125	126	127	128	
109		122		123	124	125	126	127	128	129	
110		123		124	125	126	127	128	129	130	
111		124		125	126	127	128	129	130	131	
112		125		126	127	128	129	130	131	132	
113		126		127	128	129	130	131	132	133	
114		127		128	129	130	131	132	133	134	
115		128		129	130	131	132	133	134	135	
116		129		130	131	132	133	134	135	136	
117		130		131	132	133	134	135	136	137	
118		131		132	133	134	135	136	137	138	
119		132		133	134	135	136	137	138	139	
120		133		134	135	136	137	138	139	140	
121		134		135	136	137	138	139	140	141	
122		135		136	137	138	139	140	141	142	
123		136		137	138	139	140	141	142	143	
124		137		138	139	140	141	142	143	144	
125		138		139	140	141	142	143	144	145	
126		139		140	141	142	143	144	145	146	
127		140		141	142	143	144	145	146	147	
128		141		142	143	144	145	146	147	148	
129		142		143	144	145	146	147	148	149	
130		143		144	145	146	147	148	149	150	
131		144		145	146	147	148	149	150	151	
132		145		146	147	148	149	150	151	152	
133		146		147	148	149	150	151	152	153	
134		147		148	149	150	151	152	153	154	
135		148		149	150	151	152	153	154	155	
136		149		150	151	152	153	154	155	156	
137		150		151	152	153	154	155	156	157	
138		151		152	153	154	155	156	157	158	
139		152		153	154	155	156	157	158	159	
140		153		154	155	156	157	158	159	160	
141		154		155	156	157	158	159	160	161	
142		155		156	157	158	159	160	161	162	
143		156		157	158	159	160	161	162	163	
144		157		158	159	160	161	162	163	164	
145		158		159	160	161	162	163	164	165	
146		159		160	161	162	163	164	165	166	
147		160		161	162	163	164	165	166	167	
148		161		162	163	164	165	166	167	168	
149		162		163	164	165	166	167	168	169	
150		163		164	165	166					



7099-0351A
AKRF-WHITE PLAINS

Case Narrative

Classical Chemistry - Listed below are the wet chemistry analyte methods and references for all samples analyzed in this SDG. No analytical problems were encountered and all holding times were met.

Analyte	Method	Reference
TCLP-PREP	1311	1

References:

1. Test Methods for the Evaluation of Solid Waste, SW846, 3rd edition, 1986.

Metals - TCLP metals were determined using a JA61 simultaneous ICAP following guidance provided in SW846 according to the following Methods: ICAP-3010/6010.

The tabular results do not indicate the TCLP leachate matrix, but accurately reflect the matrix as "aqueous".

No problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

TABLE AS-1.0
7099-0351A
AKRF-WHITE PLAINS
MISCELLANEOUS ATOMIC SPECTROSCOPY

Aqueous

All values are ug/L.

Client Sample I.D.	TP-13A-H	TP-13B-H		
Lab Sample I.D.	990351A-01	990351A-02		
Lead	110000	332000		

See Appendix for qualifier definitions

7099-0351A
AKRF-WHITE PLAINS
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
TP-13A-H	990351A-01	SOIL	01/27/99	02/18/99
TP-13B-H	990351A-02	SOIL	01/27/99	02/18/99

PARCEL I

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H_Soil
Site: Yonkers Waterfront

Lab Sample No: 66030
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Analyzed: 06/24/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e2309.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 20

VOLATILE ORGANICS - GC/MS METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	6.2
Bromomethane	ND	6.2
Vinyl Chloride	ND	6.2
Chloroethane	ND	6.2
Methylene Chloride	1.2JB	3.7
Acetone	ND	6.2
Carbon Disulfide	ND	6.2
1,1-Dichloroethene	ND	2.5
1,1-Dichloroethane	ND	6.2
trans-1,2-Dichloroethene	ND	6.2
cis-1,2-Dichloroethene	ND	6.2
Chloroform	ND	6.2
1,2-Dichloroethane	ND	2.5
2-Butanone	ND	6.2
1,1,1-Trichloroethane	1.2J	6.2
Carbon Tetrachloride	ND	2.5
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.2
Trichloroethene	ND	1.2
Dibromochloromethane	ND	6.2
1,1,2-Trichloroethane	ND	3.7
Benzene	ND	1.2
trans-1,3-Dichloropropene	ND	6.2
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	6.2
2-Hexanone	ND	6.2
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	0.9J	6.2
Chlorobenzene	ND	6.2
Ethylbenzene	ND	5.0
Styrene	ND	6.2
Xylene (Total)	1.6J	6.2

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Soil
Site: Yonkers Waterfront

Lab Sample No: 66030
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Analyzed: 06/24/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e2309.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 19.9

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Siloxane	11.57	9.4	
2. Unknown	14.46	20	
3. Ethylmethylbenzene isomer	14.88	9.0	
4. Unknown Siloxane	15.92	36	
5. Unknown	18.54	8.8	
6. Unknown Siloxane	20.72	8.1	
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		91	

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H_Soil
Site: Yonkers Waterfront

Lab Sample No: 66030
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/17/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u2666.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 20

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Phenol	ND		830
2-Chlorophenol	ND		830
2-Methylphenol	ND		830
4-Methylphenol	10 J		830
2-Nitrophenol	ND		830
2,4-Dimethylphenol	ND		830
2,4-Dichlorophenol	ND		830
4-Chloro-3-methylphenol	ND		830
2,4,6-Trichlorophenol	ND		830
2,4,5-Trichlorophenol	ND		830
2,4-Dinitrophenol	ND		1700
4-Nitrophenol	ND		1700
4,6-Dinitro-2-methylphenol	ND		1700
Pentachlorophenol	ND		1700

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Soil
Site: Yonkers Waterfront

Lab Sample No: 66030
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/17/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u2666.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 20

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results		Quantitation
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg
bis(2-Chloroethyl) ether	ND		42
1,3-Dichlorobenzene	ND		830
1,4-Dichlorobenzene	ND		830
1,2-Dichlorobenzene	ND		830
bis(2-chloroisopropyl) ether	ND		830
N-Nitroso-di-n-propylamine	ND		42
Hexachloroethane	ND		42
Nitrobenzene	ND		42
Isophorone	ND		830
bis(2-Chloroethoxy) methane	ND		830
1,2,4-Trichlorobenzene	ND		42
Naphthalene	360	J	830
4-Chloroaniline	ND		830
Hexachlorobutadiene	ND		83
2-Methylnaphthalene	260	J	830
Hexachlorocyclopentadiene	ND		830
2-Chloronaphthalene	ND		830
2-Nitroaniline	ND		830
Dimethylphthalate	ND		830
Acenaphthylene	76	J	830
2,6-Dinitrotoluene	ND		83
3-Nitroaniline	ND		830
Acenaphthene	57	J	830
Dibenzofuran	67	J	830
2,4-Dinitrotoluene	ND		83
Diethylphthalate	ND		830
4-Chlorophenyl-phenylether	ND		830
Fluorene	73	J	830
4-Nitroaniline	ND		830
N-Nitrosodiphenylamine	ND		830
4-Bromophenyl-phenylether	ND		830
Hexachlorobenzene	ND		42
Phenanthrene	710	J	830
Anthracene	150	J	830

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Soils
Site: Yonkers Waterfront

Lab Sample No: 66030
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/17/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u2666.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 20

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Carbazole	44	J	830
Di-n-butylphthalate		ND	830
Fluoranthene	660	J	830
Pyrene	700	J	830
Butylbenzylphthalate		ND	830
3,3'-Dichlorobenzidine		ND	1700
Benzo(a)anthracene	350		42
Chrysene	720	J	830
bis(2-Ethylhexyl)phthalate		ND	830
Di-n-octylphthalate		ND	830
Benzo(b)fluoranthene	550		42
Benzo(k)fluoranthene	230		42
Benzo(a)pyrene	290		42
Indeno(1,2,3-cd)pyrene	120		42
Dibenz(a,h)anthracene	40	J	42
Benzo(g,h,i)perylene	120	J	830

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Soil
Site: Yonkers Waterfront

Lab Sample No: 66030
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/17/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u2666.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 19.9

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C11H24 Alkane	14.00	660	
2. C12H26 Alkane	15.12	710	
3. Unknown Alkane	15.25	530	
4. C14H30 Alkane	15.85	720	
5. C13H28 Alkane	16.13	920	
6. C14H30 Alkane	17.07	1100	
7. Unknown Alkane	17.60	970	
8. C15H32 Alkane	17.95	870	
9. C16H34 Alkane	18.77	640	
10. C17H36 Alkane	19.56	520	
11. Unknown	19.58	770	
12. Unknown	21.41	900	
13. C20H42 Alkane	21.68	550	
14. Unknown	21.86	480	
15. C16H14 PAH	22.29	560	
16. Unknown Alkane	23.52	540	
17. Unknown Amide	23.94	1300	
18. Unknown Alkane	24.63	740	
19. C19H14 PAH	25.72	630	
20. Unknown Alkane	25.90	570	
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

14680

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Soil
Site: Yonkers Waterfront

Lab Sample ID: 66030
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/18/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf008320.d
Rear File ID: pr008320.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 20

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		84	R
Aroclor-1221	ND		84	R
Aroclor-1232	ND		84	R
Aroclor-1242	ND		84	R
Aroclor-1248	ND		84	R
Aroclor-1254	ND		84	R
Aroclor-1260	ND		84	R
Aroclor-1262	ND		84	R
Aroclor-1268	ND		84	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Soil
Site: Yonkers Waterfront

Lab Sample No: 66030
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98

Matrix: SOLID
Level: LOW
% Moisture: 19.9

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	2280	14.5		P
Antimony	ND	1.1	N	P
Arsenic	14.5	0.95	*	P
Barium	111	0.35		P
Beryllium	0.59	0.050		P
Cadmium	ND	0.100		P
Calcium	4940	10.5		P
Chromium	7.6	0.25		P
Cobalt	2.9	0.30	B	P
Copper	16.4	0.87		P
Iron	22000	10.4		P
Lead	27.1	0.62		P
Magnesium	1880	10.1		P
Manganese	102	0.27		P
Mercury	0.22	0.021		CV
Nickel	7.6	0.52	B	P
Potassium	850	75.0	B	P
Selenium	ND	1.8		P
Silver	ND	0.35		P
Sodium	295	106	B	P
Thallium	ND	1.2		P
Vanadium	21.7	0.47		P
Zinc	27.6	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H_Water
Site: Yonkers Waterfront

Lab Sample No: 66032
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Analyzed: 06/22/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0156.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Water
Site: Yonkers Waterfront

Lab Sample No: 66032
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Analyzed: 06/22/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0156.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Unknown Siloxane	6.75	20	
2. Unknown Silanol	8.18	12	
3. Unknown Siloxane	16.79	10	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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23.			
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27.			
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29.			
30.			

TOTAL ESTIMATED CONCENTRATION

42

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H_Water
Site: Yonkers Waterfront

Lab Sample No: 66032
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5266.d

Matrix: WATER
Level: LOW
Sample Volume: 960 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	21
2-Chlorophenol	ND	21
2-Methylphenol	ND	21
4-Methylphenol	ND	21
2-Nitrophenol	ND	21
2,4-Dimethylphenol	ND	21
2,4-Dichlorophenol	ND	21
4-Chloro-3-methylphenol	ND	21
2,4,6-Trichlorophenol	ND	21
2,4,5-Trichlorophenol	ND	21
2,4-Dinitrophenol	ND	42
4-Nitrophenol	ND	42
4,6-Dinitro-2-methylphenol	ND	42
Pentachlorophenol	ND	42

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Water
Site: Yonkers Waterfront

Lab Sample No: 66032
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5266.d

Matrix: WATER
Level: LOW
Sample Volume: 960 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.0
1,3-Dichlorobenzene	ND	21
1,4-Dichlorobenzene	ND	21
1,2-Dichlorobenzene	ND	21
bis(2-chloroisopropyl) ether	ND	21
N-Nitroso-di-n-propylamine	ND	1.0
Hexachloroethane	ND	1.0
Nitrobenzene	ND	1.0
Isophorone	ND	21
bis(2-Chloroethoxy) methane	ND	21
1,2,4-Trichlorobenzene	ND	1.0
Naphthalene	ND	21
4-Chloroaniline	ND	21
Hexachlorobutadiene	ND	2.1
2-Methylnaphthalene	ND	21
Hexachlorocyclopentadiene	ND	21
2-Chloronaphthalene	ND	21
2-Nitroaniline	ND	21
Dimethylphthalate	ND	21
Acenaphthylene	ND	21
2,6-Dinitrotoluene	ND	2.1
3-Nitroaniline	ND	21
Acenaphthene	ND	21
Dibenzofuran	ND	21
2,4-Dinitrotoluene	ND	2.1
Diethylphthalate	ND	21
4-Chlorophenyl-phenylether	ND	21
Fluorene	ND	21
4-Nitroaniline	ND	21
N-Nitrosodiphenylamine	ND	21
4-Bromophenyl-phenylether	ND	21
Hexachlorobenzene	ND	1.0
Phenanthrene	0.5J	21
Anthracene	ND	21

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Water
Site: Yonkers Waterfront

Lab Sample No: 66032
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5266.d

Matrix: WATER
Level: LOW
Sample Volume: 960 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	21
Di-n-butylphthalate	ND	21
Fluoranthene	0.5J	21
Pyrene	0.4J	21
Butylbenzylphthalate	ND	21
3,3'-Dichlorobenzidine	ND	42
Benzo(a)anthracene	0.6J	1.0
Chrysene	0.3J	21
bis(2-Ethylhexyl)phthalate	ND	21
Di-n-octylphthalate	ND	21
Benzo(b)fluoranthene	0.3J	1.0
Benzo(k)fluoranthene	ND	1.0
Benzo(a)pyrene	0.2J	1.0
Indeno(1,2,3-cd)pyrene	ND	1.0
Dibenz(a,h)anthracene	ND	1.0
Benzo(g,h,i)perylene	ND	21

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Water
Site: Yonkers Waterfront

Lab Sample No: 66032
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/16/98
Date Analyzed: 06/24/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5266.d

Matrix: WATER
Level: LOW
Sample Volume: 960 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Water
Site: Yonkers Waterfront

Lab Sample ID: 66032
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98
Date Extracted: 06/18/98
Date Analyzed: 06/19/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i

Matrix: WATER
Sample Volume: 960 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: of002062.d
Rear File ID: or002062.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.52	R
Aroclor-1221	ND	0.52	R
Aroclor-1232	ND	0.52	R
Aroclor-1242	ND	0.52	R
Aroclor-1248	ND	0.52	R
Aroclor-1254	ND	0.52	R
Aroclor-1260	ND	0.52	R
Aroclor-1262	ND	0.52	R
Aroclor-1268	ND	0.52	R

ENVIROTECH RESEARCH, INC.

Client ID: TP-4H Water
Site: Yonkers Waterfront

Lab Sample No: 66032
Lab Job No: E651

Date Sampled: 06/15/98
Date Received: 06/15/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	3330	58.2		P
Antimony	ND	4.6		P
Arsenic	12.6	3.8		P
Barium	156	1.4	B	P
Beryllium	0.23	0.20	B	P
Cadmium	ND	0.40		P
Calcium	135000	42.2		P
Chromium	7.4	1.0	B	P
Cobalt	7.1	1.2	B	P
Copper	21.1	3.5	B	P
Iron	18900	41.5		P
Lead	49.5	2.5		P
Magnesium	24600	40.3		P
Manganese	164	1.1		P
Mercury	0.23	0.10		CV
Nickel	22.7	2.1	B	P
Potassium	11000	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	71700	426		P
Thallium	ND	4.8		P
Vanadium	18.2	1.9	B	P
Zinc	52.3	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 66033
Lab Job No: E651

Date Sampled: 06/08/98
Date Received: 06/15/98
Date Analyzed: 06/22/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0148.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	1.2J	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 66033
Lab Job No: E651

Date Sampled: 06/08/98
Date Received: 06/15/98
Date Analyzed: 06/22/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c0148.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Unknown Siloxane	16.77	8.4	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

8.4

777 New Durham Road

Edison, New Jersey 08817

Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 1

[illegible]

Special Instructions

Special Instructions		Water Metals Filtered (Yes/No)	
Relinquished by	Company	Date / Time	Received by
1) Kevin Reilly	AKRF, INC	6-15-98 16:20	1) Neil Sheehy
Relinquished by	Company	Date / Time	Company
2) Neil Sheehy	ERI	8/15/98 11:00	2) William E. Mc
Relinquished by	Company	Date / Time	Company
3) William E. Mc	ENWROTECH	6-15-98 18:00	3) Gopalach
Relinquished by	Company	Date / Time	Company
4)		1	4)

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).



ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7133.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7133.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6292.d

Matrix: WATER
Level: LOW
Sample Volume: 610 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	16
2-Chlorophenol	ND	16
2-Methylphenol	ND	16
4-Methylphenol	ND	16
2-Nitrophenol	ND	16
2,4-Dimethylphenol	ND	16
2,4-Dichlorophenol	ND	16
4-Chloro-3-methylphenol	ND	16
2,4,6-Trichlorophenol	ND	16
2,4,5-Trichlorophenol	ND	16
2,4-Dinitrophenol	ND	16
4-Nitrophenol	ND	66
4,6-Dinitro-2-methylphenol	ND	66
Pentachlorophenol	ND	66

ENVIROTECH RESEARCH, INC.

Client ID: ~~Field Blank~~
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6292.d

Matrix: WATER
Level: LOW
Sample Volume: 610 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl)ether	ND	1.6
1,3-Dichlorobenzene	ND	16
1,4-Dichlorobenzene	ND	16
1,2-Dichlorobenzene	ND	16
bis(2-chloroisopropyl)ether	ND	16
N-Nitroso-di-n-propylamine	ND	16
Hexachloroethane	ND	1.6
Nitrobenzene	ND	1.6
Isophorone	ND	1.6
bis(2-Chloroethoxy)methane	ND	16
1,2,4-Trichlorobenzene	ND	16
Naphthalene	ND	1.6
4-Chloroaniline	ND	16
Hexachlorobutadiene	ND	16
2-Methylnaphthalene	ND	3.3
Hexachlorocyclopentadiene	ND	16
2-Chloronaphthalene	ND	16
2-Nitroaniline	ND	16
Dimethylphthalate	ND	33
Acenaphthylene	ND	16
2,6-Dinitrotoluene	ND	16
3-Nitroaniline	ND	3.3
Acenaphthene	ND	33
Dibenzofuran	ND	16
2,4-Dinitrotoluene	ND	16
Diethylphthalate	ND	3.3
4-Chlorophenyl-phenylether	ND	16
Fluorene	ND	16
4-Nitroaniline	ND	16
N-Nitrosodiphenylamine	ND	33
4-Bromophenyl-phenylether	ND	16
Hexachlorobenzene	ND	16
Phenanthrene	ND	1.6
Anthracene	ND	16

ENVIROTECH RESEARCH, INC.

Client ID: ~~Field Blank~~
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6292.d

Matrix: WATER
Level: LOW
Sample Volume: 610 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Result <u>Units: ug/l</u>	Quantitation
		Limit <u>Units: ug/l</u>
Carbazole	ND	16
Di-n-butylphthalate	ND	16
Fluoranthene	ND	16
Pyrene	ND	16
Butylbenzylphthalate	ND	16
3,3'-Dichlorobenzidine	ND	16
Benzo(a)anthracene	ND	33
Chrysene	ND	1.6
bis(2-Ethylhexyl)phthalate	ND	16
Di-n-octylphthalate	3.9J	16
Benzo(b)fluoranthene	ND	16
Benzo(k)fluoranthene	ND	1.6
Benzo(a)pyrene	ND	1.6
Indeno(1,2,3-cd)pyrene	ND	1.6
Dibenz(a,h)anthracene	ND	1.6
Benzo(g,h,i)perylene	ND	1.6

ENVIROTECH RESEARCH, INC.

Client ID: Field_Blank
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6292.d

Matrix: WATER
Level: LOW
Sample Volume: 610 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: Yonkers Waterfront

Lab Sample ID: **73503**
Lab Job No: **F821**

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 670 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009064.d
Rear File ID: pr009064.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/wipe</u>	<u>Quantitation</u>	
		<u>Limit</u> <u>Units: ug/wipe</u>	<u>Column</u>
Aroclor-1016	ND	0.75	R
Aroclor-1221	ND	0.75	R
Aroclor-1232	ND	0.75	R
Aroclor-1242	ND	0.75	R
Aroclor-1248	ND	0.75	R
Aroclor-1254	ND	0.75	R
Aroclor-1260	ND	0.75	R
Aroclor-1262	ND	0.75	R
Aroclor-1268	ND	0.75	R

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 73503
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	ND	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	ND	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	ND	40.3		P
Manganese	ND	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	ND	2.1		P
Potassium	ND	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	ND	426		P
Thallium	ND	4.8		P
Vanadium	ND	1.9		P
Zinc	8.2	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 73504
Lab Job No: F821

Date Sampled: 07/21/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7134.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 73504
Lab Job No: F821

Date Sampled: 07/21/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7134.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2I
Site: Yonkers Waterfront

Lab Sample No: 73505
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7135.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2I
Site: Yonkers Waterfront

Lab Sample No: 73505
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7135.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2I
Site: Yonkers Waterfront

Lab Sample No: 73505
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6293.d

Matrix: WATER
Level: LOW
Sample Volume: 830 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	12
2-Chlorophenol	ND	12
2-Methylphenol	ND	12
4-Methylphenol	ND	12
2-Nitrophenol	ND	12
2,4-Dimethylphenol	ND	12
2,4-Dichlorophenol	ND	12
4-Chloro-3-methylphenol	ND	12
2,4,6-Trichlorophenol	ND	12
2,4,5-Trichlorophenol	ND	12
2,4-Dinitrophenol	ND	48
4-Nitrophenol	ND	48
4,6-Dinitro-2-methylphenol	ND	48
Pentachlorophenol	ND	48

ENVIROTECH RESEARCH, INC.

Client ID: ~~MW-21~~
Site: Yonkers Waterfront

Lab Sample No: 73505
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6293.d

Matrix: WATER
Level: LOW
Sample Volume: 830 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.2
1,3-Dichlorobenzene	ND	12
1,4-Dichlorobenzene	ND	12
1,2-Dichlorobenzene	ND	12
bis(2-chloroisopropyl) ether	ND	12
N-Nitroso-di-n-propylamine	ND	1.2
Hexachloroethane	ND	1.2
Nitrobenzene	ND	1.2
Isophorone	ND	12
bis(2-Chloroethoxy) methane	ND	12
1,2,4-Trichlorobenzene	ND	1.2
Naphthalene	ND	12
4-Chloroaniline	ND	12
Hexachlorobutadiene	ND	2.4
2-Methylnaphthalene	ND	12
Hexachlorocyclopentadiene	ND	12
2-Chloronaphthalene	ND	12
2-Nitroaniline	ND	24
Dimethylphthalate	ND	12
Acenaphthylene	ND	12
2,6-Dinitrotoluene	ND	2.4
3-Nitroaniline	ND	24
Acenaphthene	ND	12
Dibenzofuran	ND	12
2,4-Dinitrotoluene	ND	2.4
Diethylphthalate	ND	12
4-Chlorophenyl-phenylether	ND	12
Fluorene	ND	12
4-Nitroaniline	ND	24
N-Nitrosodiphenylamine	ND	12
4-Bromophenyl-phenylether	ND	12
Hexachlorobenzene	ND	1.2
Phenanthrene	ND	12
Anthracene	ND	12

ENVIROTECH RESEARCH, INC.

Client ID: ~~MW-21~~
Site: Yonkers Waterfront

Lab Sample No: 73505
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6293.d

Matrix: WATER
Level: LOW
Sample Volume: 830 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	12
Di-n-butylphthalate	ND	12
Fluoranthene	ND	12
Pyrene	ND	12
Butylbenzylphthalate	ND	12
3,3'-Dichlorobenzidine	ND	24
Benzo(a)anthracene	ND	1.2
Chrysene	ND	12
bis(2-Ethylhexyl)phthalate	ND	12
Di-n-octylphthalate	ND	12
Benzo(b)fluoranthene	ND	1.2
Benzo(k)fluoranthene	ND	1.2
Benzo(a)pyrene	ND	1.2
Indeno(1,2,3-cd)pyrene	ND	1.2
Dibenz(a,h)anthracene	ND	1.2
Benzo(g,h,i)perylene	ND	12

ENVIROTECH RESEARCH, INC.

Client ID: MW-2I
Site: Yonkers Waterfront

Lab Sample No: 73505
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6293.d

Matrix: WATER
Level: LOW
Sample Volume: 830 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Unknown Amide	23.63	20	
2.			
3.			
4.			
5.			
6.			
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30.			

TOTAL ESTIMATED CONCENTRATION

20

ENVIROTECH RESEARCH, INC.

Client ID: MW-2I
Site: Yonkers Waterfront

Lab Sample ID: 73505
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 800 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009065.d
Rear File ID: pr009065.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/wipe</u>	<u>Quantitation</u>	
		<u>Limit</u> <u>Units: ug/wipe</u>	<u>Column</u>
Aroclor-1016	ND	0.62	R
Aroclor-1221	ND	0.62	R
Aroclor-1232	ND	0.62	R
Aroclor-1242	ND	0.62	R
Aroclor-1248	ND	0.62	R
Aroclor-1254	ND	0.62	R
Aroclor-1260	ND	0.62	R
Aroclor-1262	ND	0.62	R
Aroclor-1268	ND	0.62	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-2I
Site: Yonkers Waterfront

Lab Sample No: 73505
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	18900	58.2		P
Antimony	ND	4.6	N	P
Arsenic	28.1	3.8		P
Barium	125	1.4	B	P
Beryllium	1.3	0.20	B	P
Cadmium	ND	0.40		P
Calcium	93600	42.2		P
Chromium	40.9	1.0		P
Cobalt	14.7	1.2	B	P
Copper	63.7	3.5		P
Iron	40100	41.5		P
Lead	90.2	2.5		P
Magnesium	37400	40.3		P
Manganese	1120	1.1	N	P
Mercury	2.8	0.10	N	CV
Nickel	33.7	2.1	B	P
Potassium	10800	300		P
Selenium	5.2	4.8		P
Silver	ND	1.4		P
Sodium	79100	426		P
Thallium	ND	4.8		P
Vanadium	46.0	1.9	B	P
Zinc	160	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: MW-11
Site: Yonkers Waterfront

Lab Sample No: 73506
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7136.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260

Parameter	Analytical Result	Quantitation
	Units: ug/l	Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-1I
Site: Yonkers Waterfront

Lab Sample No: 73506
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Analyzed: 07/28/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b7136.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
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22.			
23.			
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27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		0.0	

ENVIROTECH RESEARCH, INC.

Client ID: MW-11
Site: Yonkers Waterfront

Lab Sample No: 73506
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6294.d

Matrix: WATER
Level: LOW
Sample Volume: 790 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	13
2-Chlorophenol	ND	13
2-Methylphenol	ND	13
4-Methylphenol	ND	13
2-Nitrophenol	ND	13
2,4-Dimethylphenol	ND	13
2,4-Dichlorophenol	ND	13
4-Chloro-3-methylphenol	ND	13
2,4,6-Trichlorophenol	ND	13
2,4,5-Trichlorophenol	ND	13
2,4-Dinitrophenol	ND	51
4-Nitrophenol	ND	51
4,6-Dinitro-2-methylphenol	ND	51
Pentachlorophenol	ND	51

ENVIROTECH RESEARCH, INC.

Client ID: MW-II
Site: Yonkers Waterfront

Lab Sample No: 73506
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6294.d

Matrix: WATER
Level: LOW
Sample Volume: 790 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.3
1,3-Dichlorobenzene	ND	13
1,4-Dichlorobenzene	ND	13
1,2-Dichlorobenzene	ND	13
bis(2-chloroisopropyl) ether	ND	13
N-Nitroso-di-n-propylamine	ND	1.3
Hexachloroethane	ND	1.3
Nitrobenzene	ND	1.3
Isophorone	ND	13
bis(2-Chloroethoxy) methane	ND	13
1,2,4-Trichlorobenzene	ND	1.3
Naphthalene	ND	13
4-Chloroaniline	ND	13
Hexachlorobutadiene	ND	2.5
2-Methylnaphthalene	ND	13
Hexachlorocyclopentadiene	ND	13
2-Chloronaphthalene	ND	13
2-Nitroaniline	ND	25
Dimethylphthalate	ND	13
Acenaphthylene	ND	13
2,6-Dinitrotoluene	ND	2.5
3-Nitroaniline	ND	25
Acenaphthene	ND	13
Dibenzofuran	ND	13
2,4-Dinitrotoluene	ND	2.5
Diethylphthalate	ND	13
4-Chlorophenyl-phenylether	ND	13
Fluorene	ND	13
4-Nitroaniline	ND	25
N-Nitrosodiphenylamine	ND	13
4-Bromophenyl-phenylether	ND	13
Hexachlorobenzene	ND	1.3
Phenanthrene	ND	13
Anthracene	ND	13

ENVIROTECH RESEARCH, INC.

Client ID: MW-11
Site: Yonkers Waterfront

Lab Sample No: 73506
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6294.d

Matrix: WATER
Level: LOW
Sample Volume: 790 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	13
Di-n-butylphthalate	ND	13
Fluoranthene	ND	13
Pyrene	ND	13
Butylbenzylphthalate	ND	13
3,3'-Dichlorobenzidine	ND	25
Benzo(a)anthracene	ND	1.3
Chrysene	ND	13
bis(2-Ethylhexyl)phthalate	ND	13
Di-n-octylphthalate	ND	13
Benzo(b)fluoranthene	ND	1.3
Benzo(k)fluoranthene	ND	1.3
Benzo(a)pyrene	ND	1.3
Indeno(1,2,3-cd)pyrene	ND	1.3
Dibenz(a,h)anthracene	ND	1.3
Benzo(g,h,i)perylene	ND	13

ENVIROTECH RESEARCH, INC.

Client ID: MW-11
Site: Yonkers Waterfront

Lab Sample No: 73506
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s6294.d

Matrix: WATER
Level: LOW
Sample Volume: 790 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-1I
Site: Yonkers Waterfront

Lab Sample ID: 73506
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98
Date Extracted: 07/26/98
Date Analyzed: 07/27/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i

Matrix: WATER
Sample Volume: 750 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: pf009066.d
Rear File ID: pr009066.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/wipe</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016	ND		0.67	
Aroclor-1221	ND		0.67	R
Aroclor-1232	ND		0.67	R
Aroclor-1242	ND		0.67	R
Aroclor-1248	ND		0.67	R
Aroclor-1254	ND		0.67	R
Aroclor-1260	ND		0.67	R
Aroclor-1262	ND		0.67	R
Aroclor-1268	ND		0.67	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-1I
Site: Yonkers Waterfront

Lab Sample No: 73506
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	29500	58.2		P
Antimony	ND	4.6	N	P
Arsenic	96.6	3.8		P
Barium	612	1.4		P
Beryllium	2.5	0.20		P
Cadmium	ND	0.40		P
Calcium	116000	42.2		P
Chromium	83.0	1.0		P
Cobalt	25.9	1.2	B	P
Copper	250	3.5		P
Iron	156000	41.5		P
Lead	377	2.5		P
Magnesium	45100	40.3		P
Manganese	1420	1.1	N	P
Mercury	5.2	0.10	N	CV
Nickel	67.2	2.1		P
Potassium	29700	300		P
Selenium	5.7	4.8		P
Silver	ND	1.4		P
Sodium	202000	426		P
Thallium	ND	4.8		P
Vanadium	102	1.9		P
Zinc	1290	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Site: Yonkers Waterfront

Lab Job No: F821

Date Sampled: 7/24/98

Date Received: 7/24/98

Matrix: WATER

Date Analyzed: 7/25/98

QA Batch: 1038

TURBIDITY

<u>Envirotech Sample #</u>	<u>Client ID</u>	<u>Dilution Factor</u>	<u>Analytical Result Units: NTU</u>
73501	MW-2H	20	460
73502	MW-2HA	25	625
73505	MW-2I	25	450
73506	MW-1I	25	875
73507	MW-1H	50	1050

Quantitation Limit for Turbidity is 0.5 NTU for an undiluted sample.

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank-Dis
Site: Yonkers Waterfront

Lab Sample No: 73510
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	ND	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	ND	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	ND	40.3		P
Manganese	ND	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	ND	2.1		P
Potassium	388	300	B	P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	ND	426		P
Thallium	ND	4.8		P
Vanadium	ND	1.9		P
Zinc	8.7	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: MW-2I-Dis
Site: Yonkers Waterfront

Lab Sample No: 73511
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	22.1	1.4	B	P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	97100	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	36500	40.3		P
Manganese	617	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	ND	2.1		P
Potassium	9760	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	96100	426		P
Thallium	ND	4.8		P
Vanadium	2.8	1.9	B	P
Zinc	12.5	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: MW-1I-Dis
Site: Yonkers Waterfront

Lab Sample No: 73512
Lab Job No: F821

Date Sampled: 07/24/98
Date Received: 07/24/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	58.2		P
Antimony	ND	4.6	N	P
Arsenic	ND	3.8		P
Barium	44.8	1.4	B	P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	109000	42.2		P
Chromium	ND	1.0		P
Cobalt	1.6	1.2	B	P
Copper	ND	3.5		P
Iron	8450	41.5		P
Lead	ND	2.5		P
Magnesium	39500	40.3		P
Manganese	775	1.1	N	P
Mercury	ND	0.10	N	CV
Nickel	8.4	2.1	B	P
Potassium	26200	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	208000	426		P
Thallium	ND	4.8		P
Vanadium	7.5	1.9	B	P
Zinc	7.9	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH INC.

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 1

Name (for report and invoice)		Samplers Name (Printed)		Site/Project Identification	
MICHELLE LARIN		KEVIN REILLY		YONKERS WATERFRONT	
Company		P.O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other:	
AKRF, INC.		70004		Regulatory Program:	
Address		Analysis Turnaround Time		LAB USE ONLY	
34 SOUTH BROADWAY		Standard <input type="checkbox"/> Rush Charges Authorized For		Project No:	
City		2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 2 DAYS		Job No: F821	
State NY		Zip 10601		Sample Numbers	
Phone (914) 944-7336		Fax (914) 949-7557		73501	
Sample Identification		Date	Time	Matrix	Cont.
MW-2H	7-24	11:15	WATER	6	X
MW-2HA	7-24	11:15	WATER	6	X
(FB-4) FIELD BLANK	7-24	11:15	WATER	6	X
TRIP BLANK	7-24	11:15	WATER	2	X
MW-2I	7-24	12:15	WATER	6	X
MW-1I	7-24	1:00	WATER	6	X
MW-1H	7-24	2:00	WATER	6	X
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH		Soil:		Water:	
6 = Other		7 = Other			

015:
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Special Instructions		Water Metals Filtered (Yes/No)?	
DISOLVED METALS TO BE LAB FILTERED.		YES	
Relinquished by	Company	Date / Time	Received by
1) Kevin Reilly	AKRF, INC.	7-24-98 / 13:00	1) Kevin Reilly
Relinquished by	Company	Date / Time	Received by
2) Kevin Reilly	ENVIRO-TECH	7-24-98 / 18:30	2) Kevin Reilly
Relinquished by	Company	Date / Time	Received by
3)			3)
Relinquished by	Company	Date / Time	Received by
4)			4)

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).



ENVIROTECH RESEARCH, INC.

Client ID: SS_Parcel-I
Site: Yonkers Waterfront

Lab Sample No: 74840
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/04/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5993.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 1

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Phenol	ND	340
2-Chlorophenol	ND	340
2-Methylphenol	ND	340
4-Methylphenol	ND	340
2-Nitrophenol	ND	340
2,4-Dimethylphenol	ND	340
2,4-Dichlorophenol	ND	340
4-Chloro-3-methylphenol	ND	340
2,4,6-Trichlorophenol	ND	340
2,4,5-Trichlorophenol	ND	340
2,4-Dinitrophenol	ND	1300
4-Nitrophenol	ND	1300
4,6-Dinitro-2-methylphenol	ND	1300
Pentachlorophenol	ND	1300

ENVIROTECH RESEARCH, INC.

Client ID: SS_Parcel-I
Site: Yonkers Waterfront

Lab Sample No: 74840
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/04/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5993.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 1

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
bis(2-Chloroethyl) ether	ND		34
1,3-Dichlorobenzene	ND		340
1,4-Dichlorobenzene	ND		340
1,2-Dichlorobenzene	ND		340
bis(2-chloroisopropyl) ether	ND		340
N-Nitroso-di-n-propylamine	ND		34
Hexachloroethane	ND		34
Nitrobenzene	ND		34
Isophorone	ND		340
bis(2-Chloroethoxy) methane	ND		340
1,2,4-Trichlorobenzene	ND		34
Naphthalene	50 J		340
4-Chloroaniline	ND		340
Hexachlorobutadiene	ND		67
2-Methylnaphthalene	36 J		340
Hexachlorocyclopentadiene	ND		340
2-Chloronaphthalene	ND		340
2-Nitroaniline	ND		670
Dimethylphthalate	ND		340
Acenaphthylene	44 J		340
2,6-Dinitrotoluene	ND		67
3-Nitroaniline	ND		670
Acenaphthene	61 J		340
Dibenzofuran	37 J		340
2,4-Dinitrotoluene	ND		67
Diethylphthalate	ND		340
4-Chlorophenyl-phenylether	ND		340
Fluorene	66 J		340
4-Nitroaniline	ND		670
N-Nitrosodiphenylamine	ND		340
4-Bromophenyl-phenylether	ND		340
Hexachlorobenzene	ND		34
Phenanthrene	580		340
Anthracene	140 J		340

ENVIROTECH RESEARCH, INC.

Client ID: SS_Parcel-1
Site: Yonkers Waterfront

Lab Sample No: 74840
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/04/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5993.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 1

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Carbazole	58	J	340
Di-n-butylphthalate		ND	340
Fluoranthene	720		340
Pyrene	670		340
Butylbenzylphthalate	180	J	340
3,3'-Dichlorobenzidine		ND	670
Benzo(a)anthracene	370		34
Chrysene	390		340
bis(2-Ethylhexyl)phthalate	380		340
Di-n-octylphthalate		ND	340
Benzo(b)fluoranthene	440		34
Benzo(k)fluoranthene	170		34
Benzo(a)pyrene	300		34
Indeno(1,2,3-cd)pyrene	100		34
Dibenz(a,h)anthracene	30	J	34
Benzo(g,h,i)perylene	96	J	340

ENVIROTECH RESEARCH, INC.

Client ID: SS Parcel-I
Site: Yonkers Waterfront

Lab Sample No: 74840
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/04/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q5993.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0.8

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C20H12 PAH	27.17	440	
2. Unknown	29.15	320	
3.			
4.			
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30.			
TOTAL ESTIMATED CONCENTRATION		760	

ENVIROTECH RESEARCH, INC.

Client ID: SS Parcel-I
Site: Yonkers Waterfront

Lab Sample ID: 74840
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/05/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC4.i
Front File ID: wf014467.d
Rear File ID: wr014467.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 1

ORGANOCHLORINE PESTICIDES - GC/ECD METHOD 8081A

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg	Column
Aldrin	ND		6.8	R
alpha-BHC	ND		6.8	R
beta-BHC	ND		6.8	R
delta-BHC	ND		6.8	R
gamma-BHC (Lindane)	ND		6.8	R
Chlordane	ND		6.8	R
4,4'-DDD	ND		68	R
4,4'-DDE	ND		6.8	R
4,4'-DDT	9.8		6.8	R
Dieldrin	9.5		6.8	R
Endosulfan I	ND		6.8	R
Endosulfan II	ND		6.8	R
Endosulfan sulfate	ND		6.8	R
Endrin	ND		6.8	R
Endrin aldehyde	ND		6.8	R
Endrin ketone	ND		6.8	R
Heptachlor	ND		6.8	R
Heptachlor epoxide	ND		6.8	R
Methoxychlor	ND		6.8	R
Toxaphene	ND		130	R

ENVIROTECH RESEARCH, INC.

Client ID: SS_Parcel-I
Site: Yonkers Waterfront

Lab Sample ID: 74840
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98
Date Extracted: 08/03/98
Date Analyzed: 08/06/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC4.i
Front File ID: wf014532.d
Rear File ID: wr014532.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 1

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		68	R
Aroclor-1221	ND		68	R
Aroclor-1232	ND		68	R
Aroclor-1242	ND		68	R
Aroclor-1248	ND		68	R
Aroclor-1254	ND		68	R
Aroclor-1260	ND		68	R
Aroclor-1262	ND		68	R
Aroclor-1268	ND		68	R

ENVIROTECH RESEARCH, INC.

Client ID: SS Parcel-I
Site: Yonkers Waterfront

Lab Sample No: 74840
Lab Job No: F961

Date Sampled: 07/30/98
Date Received: 07/30/98

Matrix: SOLID
Level: LOW
% Moisture: 0.8

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	4760	11.7		P
Antimony	ND	0.93	N	P
Arsenic	1.9	0.77		P
Barium	40.1	0.28		P
Beryllium	0.13	0.040	B	P
Cadmium	ND	0.081		P
Calcium	6250	8.5	N	P
Chromium	14.7	0.20		P
Cobalt	4.7	0.24	B	P
Copper	23.1	0.71		P
Iron	11300	8.4		P
Lead	70.0	0.50	N	P
Magnesium	4940	8.1	N	P
Manganese	175	0.22		P
Mercury	0.04	0.017		CV
Nickel	11.4	0.42		P
Potassium	1200	60.5		P
Selenium	ND	0.97		P
Silver	ND	0.28		P
Sodium	122	85.9	B	P
Thallium	ND	0.97		P
Vanadium	21.1	0.38		P
Zinc	55.6	0.91	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

777 New Durham Road

Edison, New Jersey 08817

Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE / OF

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Special Instructions

Relinquished by		Company	Date / Time	Received by	Company	Water Metals Filtered (Yes/No)?
1)	Ken O. Randle	NCRF, INC.	7-30-98 10 AM	1) Neil Hakey	ERT	
2)	Neil Hakey	ERT	7-31-98 11:20	2) R. Hakey	EnviroTech	
3)				3)		
	Relinquished by	Company	Date / Time	Received by	Company	
4)				4)		

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

PARCEL C

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 93192
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Analyzed: 11/02/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c2532.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 93192
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Analyzed: 11/02/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c2532.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Unknown Siloxane	16.87	5.1	
2. Unknown Siloxane	18.81	8.1	B
3.			
4.			
5.			
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TOTAL ESTIMATED CONCENTRATION

5.1

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: **Yonkers Waterfront**

Lab Sample No: **93192**
Lab Job No: **I638**

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/02/98
Date Analyzed: 11/03/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m3123.d

Matrix: **WATER**
Level: **LOW**
Sample Volume: **880 ml**
Extract Final Volume: **2.0 ml**
Dilution Factor: **1.0**

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	11
2-Chlorophenol	ND	11
2-Methylphenol	ND	11
4-Methylphenol	ND	11
2-Nitrophenol	ND	11
2,4-Dimethylphenol	ND	11
2,4-Dichlorophenol	ND	11
4-Chloro-3-methylphenol	ND	11
2,4,6-Trichlorophenol	ND	11
2,4,5-Trichlorophenol	ND	11
2,4-Dinitrophenol	ND	45
4-Nitrophenol	ND	45
4,6-Dinitro-2-methylphenol	ND	45
Pentachlorophenol	ND	45

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: **Yonkers Waterfront**

Lab Sample No: **93192**
Lab Job No: **I638**

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/02/98
Date Analyzed: 11/03/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m3123.d

Matrix: **WATER**
Level: **LOW**
Sample Volume: **880 ml**
Extract Final Volume: **2.0 ml**
Dilution Factor: **1.0**

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.1
1,3-Dichlorobenzene	ND	11
1,4-Dichlorobenzene	ND	11
1,2-Dichlorobenzene	ND	11
bis(2-chloroisopropyl) ether	ND	11
N-Nitroso-di-n-propylamine	ND	1.1
Hexachloroethane	ND	1.1
Nitrobenzene	ND	1.1
Isophorone	ND	11
bis(2-Chloroethoxy) methane	ND	11
1,2,4-Trichlorobenzene	ND	1.1
Naphthalene	ND	11
4-Chloroaniline	ND	11
Hexachlorobutadiene	ND	2.3
2-Methylnaphthalene	ND	11
Hexachlorocyclopentadiene	ND	11
2-Chloronaphthalene	ND	11
2-Nitroaniline	ND	23
Dimethylphthalate	ND	11
Acenaphthylene	ND	11
2,6-Dinitrotoluene	ND	2.3
3-Nitroaniline	ND	23
Acenaphthene	ND	11
Dibenzofuran	ND	11
2,4-Dinitrotoluene	ND	2.3
Diethylphthalate	ND	11
4-Chlorophenyl-phenylether	ND	11
Fluorene	ND	11
4-Nitroaniline	ND	23
N-Nitrosodiphenylamine	ND	11
4-Bromophenyl-phenylether	ND	11
Hexachlorobenzene	ND	1.1
Phenanthrene	ND	11
Anthracene	ND	11

ENVIROTECH RESEARCH, INC.

Client ID: Field_Blank
Site: Yonkers Waterfront

Lab Sample No: 93192
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/02/98
Date Analyzed: 11/03/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m3123.d

Matrix: WATER
Level: LOW
Sample Volume: 880 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	11
Di-n-butylphthalate	ND	11
Fluoranthene	ND	11
Pyrene	ND	11
Butylbenzylphthalate	ND	11
3,3'-Dichlorobenzidine	ND	11
Benzo(a)anthracene	ND	23
Chrysene	ND	1.1
bis(2-Ethylhexyl)phthalate	ND	11
Di-n-octylphthalate	ND	11
Benzo(b)fluoranthene	ND	1.1
Benzo(k)fluoranthene	ND	1.1
Benzo(a)pyrene	ND	1.1
Indeno(1,2,3-cd)pyrene	ND	1.1
Dibenz(a,h)anthracene	ND	1.1
Benzo(g,h,i)perylene	ND	11

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 93192
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/02/98
Date Analyzed: 11/03/98
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m3123.d

Matrix: WATER
Level: LOW
Sample Volume: 880 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample ID: 93192
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/04/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 850 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: zf035130.d
Rear File ID: zr035130.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.59	R
Aroclor-1221	ND	0.59	R
Aroclor-1232	ND	0.59	R
Aroclor-1242	ND	0.59	R
Aroclor-1248	ND	0.59	R
Aroclor-1254	ND	0.59	R
Aroclor-1260	ND	0.59	R
Aroclor-1262	ND	0.59	R
Aroclor-1268	ND	0.59	R

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 93192
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	84.1		P
Antimony	ND	4.4	N	P
Arsenic	ND	2.8		P
Barium	ND	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	ND	82.0	*	P
Chromium	ND	1.1		P
Cobalt	ND	1.3		P
Copper	ND	2.9	*	P
Iron	96.8	47.5	B	P
Lead	ND	2.0	*	P
Magnesium	ND	69.7	N*	P
Manganese	2.3	0.90	B	P
Mercury	ND	0.10		CV
Nickel	ND	2.1		P
Potassium	ND	245		P
Selenium	ND	4.2		P
Silver	ND	1.4		P
Sodium	ND	483		P
Thallium	ND	4.5		P
Vanadium	ND	2.6		P
Zinc	ND	3.9	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 93197
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Analyzed: 11/02/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c2533.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 93197
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Analyzed: 11/02/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c2533.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: B-1C S-3
Site: Yonkers Waterfront

Lab Sample No: 93198
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a6976.d

Matrix: SOIL
Level: LOW
Sample Weight: 6.2 g
Purge Volume: 5.0 ml
% Moisture: 12

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.6
Bromomethane	ND	4.6
Vinyl Chloride	ND	4.6
Chloroethane	ND	4.6
Methylene Chloride	2.2JB	2.8
Acetone	65	4.6
Carbon Disulfide	1.7J	4.6
1,1-Dichloroethene	ND	1.8
1,1-Dichloroethane	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
cis-1,2-Dichloroethene	ND	4.6
Chloroform	ND	4.6
1,2-Dichloroethane	ND	1.8
2-Butanone	ND	4.6
1,1,1-Trichloroethane	ND	4.6
Carbon Tetrachloride	ND	1.8
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	0.9
cis-1,3-Dichloropropene	ND	4.6
Trichloroethene	ND	0.9
Dibromochloromethane	ND	4.6
1,1,2-Trichloroethane	ND	2.8
Benzene	1.2	0.9
trans-1,3-Dichloropropene	ND	4.6
Bromoform	ND	3.7
4-Methyl-2-Pentanone	ND	4.6
2-Hexanone	ND	4.6
Tetrachloroethene	ND	0.9
1,1,2,2-Tetrachloroethane	ND	0.9
Toluene	1.0J	4.6
Chlorobenzene	ND	4.6
Ethylbenzene	ND	3.7
Styrene	ND	4.6
Xylene (Total)	1.5J	4.6

ENVIROTECH RESEARCH, INC.

Client ID: B-1C S-3
Site: Yonkers Waterfront

Lab Sample No: 93198
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a6976.d

Matrix: SOIL
Level: LOW
Sample Weight: 6.2 g
Purge Volume: 5.0 ml
% Moisture: 12.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Decahydronaphthalene isomer	17.15	25	
2. 2,3-dihydro-methyl-1H-Indene isomer	17.60	24	
3. Tetramethylbenzene isomer	17.84	21	
4. Unknown Alkane	18.31	19	
5. C10H12 Aromatic	18.49	25	
6. 2,3-dihydro-dimethyl-1H-Indene isomer	18.83	24	
7. 2,3-dihydro-dimethyl-1H-Indene isomer	19.02	32	
8. Tetrahydromethylnaphthalene isomer	19.41	21	
9. Tetrahydromethylnaphthalene isomer	19.54	20	
10. Tetrahydromethylnaphthalene isomer	20.03	26	
11.			
12.			
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TOTAL ESTIMATED CONCENTRATION

237

ENVIROTECH RESEARCH, INC.

Client ID: B-1C S-3RE
Site: Yonkers Waterfront

Lab Sample No: 93198RE
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/13/98
Date Analyzed: 11/16/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8204.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Phenol	14	J	380
2-Chlorophenol	ND		380
2-Methylphenol	ND		380
4-Methylphenol	ND		380
2-Nitrophenol	ND		380
2,4-Dimethylphenol	ND		380
2,4-Dichlorophenol	ND		380
4-Chloro-3-methylphenol	ND		380
2,4,6-Trichlorophenol	ND		380
2,4,5-Trichlorophenol	ND		380
2,4-Dinitrophenol	ND		1500
4-Nitrophenol	ND		1500
4,6-Dinitro-2-methylphenol	ND		1500
Pentachlorophenol	ND		1500

ENVIROTECH RESEARCH, INC.

Client ID: B-1C_S-3RE
Site: Yonkers Waterfront

Lab Sample No: 93198RE
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/13/98
Date Analyzed: 11/16/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8204.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
bis(2-Chloroethyl) ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl) ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy) methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	140 J	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	280 J	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	180 J	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	240 J	380
Dibenzofuran	140 J	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	280 J	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	2100	380
Anthracene	510	380

ENVIROTECH RESEARCH, INC.

Client ID: B-1C_S-3RE
Site: Yonkers Waterfront

Lab Sample No: 93198RE
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/13/98
Date Analyzed: 11/16/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8204.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Carbazole	170 J	380
Di-n-butylphthalate	ND	380
Fluoranthene	2800	380
Pyrene	2700	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	1200	38
Chrysene	1400	380
bis(2-Ethylhexyl)phthalate	130 J	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	1500	38
Benzo(k)fluoranthene	590	38
Benzo(a)pyrene	1200	38
Indeno(1,2,3-cd)pyrene	550	38
Dibenz(a,h)anthracene	130	38
Benzo(g,h,i)perylene	480	380

ENVIROTECH RESEARCH, INC.

Client ID: B-1C S-3RE
Site: Yonkers Waterfront

Lab Sample No: 93198RE
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/13/98
Date Analyzed: 11/16/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8204.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	15.20	1400	
2. Unknown Alkane	15.38	1300	
3. Unknown Alkane	15.99	1600	
4. Unknown Alkane	16.99	1200	
5. Unknown Alkane	17.22	1000	
6. Dimethylnaphthalene isomer	17.65	770	
7. Unknown Alkane	17.75	2600	
8. Unknown	18.08	690	
9. Ethylmethylnaphthalene isomer	18.39	670	
10. Trimethylnaphthalene isomer	18.63	800	
11. Trimethylnaphthalene isomer	18.75	680	
12. Trimethylnaphthalene isomer	18.90	770	
13. Unknown Alkane	19.75	3800	
14. Unknown Alkane//Unknown	20.04	860	
15. Unknown Alkane/Unknown	20.10	1000	
16. Unknown	20.29	1300	
17. Unknown Alkane	20.52	2200	
18. C15H12 PAH	21.59	750	
19. C15H10/C15H12 PAHs	21.73	850	
20. C20H12 PAH	28.53	1200	
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

25440

ENVIROTECH RESEARCH, INC.

Client ID: B-1C S-3
Site: Yonkers Waterfront

Lab Sample ID: 93198
Lab Job No: I638

Date Sampled: 10/29/98
Date Received: 10/29/98
Date Extracted: 11/02/98
Date Analyzed: 11/07/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf011703.d
Rear File ID: pr011703.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>	<u>Column</u>
Aroclor-1016	ND		76	R
Aroclor-1221	ND		76	R
Aroclor-1232	ND		76	R
Aroclor-1242	ND		76	R
Aroclor-1248	ND		76	R
Aroclor-1254	ND		76	R
Aroclor-1260	ND		76	R
Aroclor-1262	ND		76	R
Aroclor-1268	ND		76	R

ENVIROTECH RESEARCH, INC.

Client ID: B-1C S-3
Site: Yonkers Waterfront

Lab Sample No: 93198
Lab Job No: I638

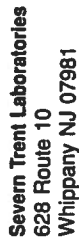
Date Sampled: 10/29/98
Date Received: 10/29/98

Matrix: SOLID
Level: LOW
% Moisture: 12.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	6830	19.1		P
Antimony	1.8	1.0	BN	P
Arsenic	6.7	0.64		P
Barium	123	0.32		P
Beryllium	0.34	0.045	B	P
Cadmium	0.41	0.091	B	P
Calcium	25800	18.6	*	P
Chromium	23.7	0.25		P
Cobalt	6.5	0.30	B	P
Copper	393	0.66	*	P
Iron	19800	10.8		P
Lead	468	0.45	*	P
Magnesium	5930	15.8	N*	P
Manganese	227	0.20		P
Mercury	0.61	0.019		CV
Nickel	16.9	0.48		P
Potassium	901	55.7	B	P
Selenium	1.2	0.95		P
Silver	ND	0.32		P
Sodium	339	110	B	P
Thallium	ND	1.0		P
Vanadium	29.3	0.59		P
Zinc	253	0.89	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)



Tel: (973) 428-8181
Fax: (973) 428-5222

CHAIN OF CUSTODY

FIELD BOOK:

No. 62703

Job I638

Page 1 of 1[illegible]

(Copies: White and yellow copies should accompany samples to STL. The pink copy should be retained by the client.) See reverse for directions.



ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: Yonkers Waterfront

Lab Sample No: **93682**
Lab Job No: **I685**

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d8382.d

Matrix: **WATER**
Level: **LOW**
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: **Yonkers Waterfront**

Lab Sample No: **93682**
Lab Job No: **I685**

Date Sampled: **10/30/98**
Date Received: **10/30/98**
Date Analyzed: **11/09/98**
GC Column: **DB624**
Instrument ID: **VOAMS4.i**
Lab File ID: **d8382.d**

Matrix: **WATER**
Level: **LOW**
Purge Volume: **5.0 ml**
Dilution Factor: **1.0**

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
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28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 93682
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/11/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8759.d

Matrix: WATER
Level: LOW
Sample Volume: 880 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	11
2-Chlorophenol	ND	11
2-Methylphenol	ND	11
4-Methylphenol	ND	11
2-Nitrophenol	ND	11
2,4-Dimethylphenol	ND	11
2,4-Dichlorophenol	ND	11
4-Chloro-3-methylphenol	ND	11
2,4,6-Trichlorophenol	ND	11
2,4,5-Trichlorophenol	ND	11
2,4-Dinitrophenol	ND	45
4-Nitrophenol	ND	45
4,6-Dinitro-2-methylphenol	ND	45
Pentachlorophenol	ND	45

ENVIROTECH RESEARCH, INC.

Client ID: ~~Field Blank~~
Site: Yonkers Waterfront

Lab Sample No: ~~93682~~
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/11/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8759.d

Matrix: WATER
Level: LOW
Sample Volume: 880 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.1
1,3-Dichlorobenzene	ND	11
1,4-Dichlorobenzene	ND	11
1,2-Dichlorobenzene	ND	11
bis(2-chloroisopropyl) ether	ND	11
N-Nitroso-di-n-propylamine	ND	1.1
Hexachloroethane	ND	1.1
Nitrobenzene	ND	1.1
Isophorone	ND	11
bis(2-Chloroethoxy) methane	ND	11
1,2,4-Trichlorobenzene	ND	1.1
Naphthalene	ND	11
4-Chloroaniline	ND	11
Hexachlorobutadiene	ND	2.3
2-Methylnaphthalene	ND	11
Hexachlorocyclopentadiene	ND	11
2-Chloronaphthalene	ND	11
2-Nitroaniline	ND	23
Dimethylphthalate	ND	11
Acenaphthylene	ND	11
2,6-Dinitrotoluene	ND	2.3
3-Nitroaniline	ND	23
Acenaphthene	ND	11
Dibenzofuran	ND	11
2,4-Dinitrotoluene	ND	2.3
Diethylphthalate	ND	11
4-Chlorophenyl-phenylether	ND	11
Fluorene	ND	11
4-Nitroaniline	ND	23
N-Nitrosodiphenylamine	ND	11
4-Bromophenyl-phenylether	ND	11
Hexachlorobenzene	ND	1.1
Phenanthrene	ND	11
Anthracene	ND	11

ENVIROTECH RESEARCH, INC.

Client ID: ~~Field Blank~~
Site: Yonkers Waterfront

Lab Sample No: ~~93682~~
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/11/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8759.d

Matrix: WATER
Level: LOW
Sample Volume: 880 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	11
Di-n-butylphthalate	ND	11
Fluoranthene	ND	11
Pyrene	ND	11
Butylbenzylphthalate	ND	11
3,3'-Dichlorobenzidine	ND	23
Benzo(a)anthracene	ND	1.1
Chrysene	ND	11
bis(2-Ethylhexyl)phthalate	ND	11
Di-n-octylphthalate	ND	11
Benzo(b)fluoranthene	ND	1.1
Benzo(k)fluoranthene	ND	1.1
Benzo(a)pyrene	ND	1.1
Indeno(1,2,3-cd)pyrene	ND	1.1
Dibenz(a,h)anthracene	ND	1.1
Benzo(g,h,i)perylene	ND	11

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 93682
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/11/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8759.d

Matrix: WATER
Level: LOW
Sample Volume: 880 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample ID: 93682
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/04/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 450 ml
Extract Final Volume: 2.5 ml
Dilution Factor: 1.0
Front File ID: zf035131.d
Rear File ID: zr035131.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	Analytical Results <u>Units: ug/l</u>	Method Detection	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.56	R
Aroclor-1221	ND	0.56	R
Aroclor-1232	ND	0.56	R
Aroclor-1242	ND	0.56	R
Aroclor-1248	ND	0.56	R
Aroclor-1254	ND	0.56	R
Aroclor-1260	ND	0.56	R
Aroclor-1262	ND	0.56	R
Aroclor-1268	ND	0.56	R

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 93682
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	84.1		P
Antimony	ND	4.4	N	P
Arsenic	ND	2.8		P
Barium	ND	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	146	82.0	B	P
Chromium	ND	1.1	*	P
Cobalt	ND	1.3		P
Copper	ND	2.9		P
Iron	112	47.5	B	P
Lead	ND	2.0		P
Magnesium	ND	69.7		P
Manganese	1.7	0.90	B	P
Mercury	ND	0.10		CV
Nickel	ND	2.1		P
Potassium	ND	245		P
Selenium	ND	4.2		P
Silver	ND	1.4		P
Sodium	ND	483		P
Thallium	ND	4.5		P
Vanadium	ND	2.6		P
Zinc	ND	3.9	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.Client ID: Trip Blank
Site: Yonkers WaterfrontLab Sample No: 93683
Lab Job No: I685Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d8383.dMatrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0**VOLATILE ORGANICS - GC/MS
METHOD 8260B**

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 93683
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d8383.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
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16.			
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18.			
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20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C S-3
Site: Yonkers Waterfront

Lab Sample No: 93684
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a6977.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 13

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND		5.4
Bromomethane	ND		5.4
Vinyl Chloride	ND		5.4
Chloroethane	ND		5.4
Methylene Chloride	10 B		3.2
Acetone	60		5.4
Carbon Disulfide	2.2J		5.4
1,1-Dichloroethene	ND		2.2
1,1-Dichloroethane	ND		5.4
trans-1,2-Dichloroethene	ND		5.4
cis-1,2-Dichloroethene	ND		5.4
Chloroform	ND		5.4
1,2-Dichloroethane	ND		2.2
2-Butanone	ND		5.4
1,1,1-Trichloroethane	ND		5.4
Carbon Tetrachloride	ND		2.2
Bromodichloromethane	ND		1.1
1,2-Dichloropropane	ND		1.1
cis-1,3-Dichloropropene	ND		5.4
Trichloroethene	1.0J		1.1
Dibromochloromethane	ND		5.4
1,1,2-Trichloroethane	ND		3.2
Benzene	ND		1.1
trans-1,3-Dichloropropene	ND		5.4
Bromoform	ND		4.3
4-Methyl-2-Pentanone	ND		5.4
2-Hexanone	ND		5.4
Tetrachloroethene	0.8J		1.1
1,1,2,2-Tetrachloroethane	ND		1.1
Toluene	1.5J		5.4
Chlorobenzene	ND		5.4
Ethylbenzene	0.9J		4.3
Styrene	ND		5.4
Xylene (Total)	6.0		5.4

ENVIROTECH RESEARCH, INC.

Client ID: **MW-4C_S-3**
 Site: Yonkers Waterfront

Lab Sample No: **93684**
 Lab Job No: **I685**

Date Sampled: 10/30/98
 Date Received: 10/30/98
 Date Analyzed: 11/09/98
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a6977.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.3 g
 Purge Volume: 5.0 ml
 % Moisture: 13.0

VOLATILE ORGANICS - GC/MS **TENTATIVELY IDENTIFIED COMPOUNDS** **METHOD 8260B**

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C10H14 Aromatic/Unknown Hydrocarbon	16.48	21	
2. 2,3-dihydro-methyl-1H-Indene isomer	17.61	30	
3. Ethyldimethylbenzene isomer	17.83	26	
4. C10H14 Aromatic/Unknown	17.92	25	
5. Unknown Alkane	18.30	25	
6. 2,3-dihydro-methyl-1H-Indene isomer	18.48	29	
7. 2,3-dihydro-dimethyl-1H-Indene isomer	18.82	49	
8. 2,3-dihydro-dimethyl-1H-Indene isomer/	19.01	35	
9. Unknown Aromatic	19.41	31	
10. Methyl naphthalene isomer	21.21	22	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

293

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C_S-3
Site: Yonkers Waterfront

Lab Sample No: 93684
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8744.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 13

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	380
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C_S-3
Site: Yonkers Waterfront

Lab Sample No: 93684
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8744.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 13

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
bis(2-Chloroethyl) ether	ND		38
1,3-Dichlorobenzene	ND		380
1,4-Dichlorobenzene	ND		380
1,2-Dichlorobenzene	ND		380
bis(2-chloroisopropyl) ether	ND		380
N-Nitroso-di-n-propylamine	ND		38
Hexachloroethane	ND		38
Nitrobenzene	ND		38
Isophorone	ND		380
bis(2-Chloroethoxy) methane	ND		380
1,2,4-Trichlorobenzene	ND		38
Naphthalene	33 J		380
4-Chloroaniline	ND		380
Hexachlorobutadiene	ND		77
2-Methylnaphthalene	120 J		380
Hexachlorocyclopentadiene	ND		380
2-Chloronaphthalene	ND		380
2-Nitroaniline	ND		770
Dimethylphthalate	ND		380
Acenaphthylene	24 J		380
2,6-Dinitrotoluene	ND		77
3-Nitroaniline	ND		770
Acenaphthene	25 J		380
Dibenzofuran	24 J		380
2,4-Dinitrotoluene	ND		77
Diethylphthalate	ND		380
4-Chlorophenyl-phenylether	ND		380
Fluorene	30 J		380
4-Nitroaniline	ND		770
N-Nitrosodiphenylamine	ND		380
4-Bromophenyl-phenylether	ND		380
Hexachlorobenzene	ND		38
Phenanthrene	220 J		380
Anthracene	47 J		380

ENVIROTECH RESEARCH, INC.

Client ID: ~~MW-4C-S-3~~
Site: Yonkers Waterfront

Lab Sample No: 93684
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8744.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 13

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Carbazole	17	J	380
Di-n-butylphthalate		ND	380
Fluoranthene	250	J	380
Pyrene	200	J	380
Butylbenzylphthalate		ND	380
3,3'-Dichlorobenzidine		ND	770
Benzo(a)anthracene	120		38
Chrysene	150	J	380
bis(2-Ethylhexyl)phthalate	280	J	380
Di-n-octylphthalate		ND	380
Benzo(b)fluoranthene	140		38
Benzo(k)fluoranthene	56		38
Benzo(a)pyrene	110		38
Indeno(1,2,3-cd)pyrene	63		38
Dibenz(a,h)anthracene	24	J	38
Benzo(g,h,i)perylene	71	J	380

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C S-3
Site: Yonkers Waterfront

Lab Sample No: 93684
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8744.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 13.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane/Unknown	17.68	420	
2. Unknown Alkane	19.66	520	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
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23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

940

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C_S-3
Site: Yonkers Waterfront

Lab Sample ID: 93684
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf011684.d
Rear File ID: pr011684.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 13

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	
			<u>Units: ug/kg</u>	<u>Column</u>
Aroclor-1016	ND		77	R
Aroclor-1221	ND		77	R
Aroclor-1232	ND		77	R
Aroclor-1242	ND		77	R
Aroclor-1248	ND		77	R
Aroclor-1254	ND		77	R
Aroclor-1260	ND		77	R
Aroclor-1262	ND		77	R
Aroclor-1268	ND		77	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C S-3
Site: Yonkers Waterfront

Lab Sample No: 93684
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98

Matrix: SOLID
Level: LOW
% Moisture: 13.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	8940	19.3		P
Antimony	ND	1.0	N	P
Arsenic	2.6	0.64		P
Barium	63.7	0.32		P
Beryllium	0.33	0.046	B	P
Cadmium	ND	0.092		P
Calcium	5720	18.9		P
Chromium	20.8	0.25	*	P
Cobalt	9.2	0.30	B	P
Copper	44.5	0.67		P
Iron	14700	10.9		P
Lead	27.7	0.46		P
Magnesium	6310	16.0		P
Manganese	296	0.21		P
Mercury	0.11	0.019		CV
Nickel	28.4	0.48		P
Potassium	1500	56.4		P
Selenium	ND	0.97		P
Silver	ND	0.32		P
Sodium	635	111	B	P
Thallium	ND	1.0		P
Vanadium	26.2	0.60		P
Zinc	48.6	0.90	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: B-5C S-1
Site: Yonkers Waterfront

Lab Sample No: 93685
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a6978.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.9 g
Purge Volume: 5.0 ml
% Moisture: 6

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u>		<u>Limit</u>
	<u>(Dry Weight)</u>		<u>Units: ug/kg</u>
Chloromethane	ND		4.5
Bromomethane	ND		4.5
Vinyl Chloride	ND		4.5
Chloroethane	ND		4.5
Methylene Chloride	4.1B		2.7
Acetone	21		4.5
Carbon Disulfide	1.0J		4.5
1,1-Dichloroethene	ND		1.8
1,1-Dichloroethane	ND		4.5
trans-1,2-Dichloroethene	ND		4.5
cis-1,2-Dichloroethene	ND		4.5
Chloroform	ND		4.5
1,2-Dichloroethane	ND		1.8
2-Butanone	ND		4.5
1,1,1-Trichloroethane	ND		4.5
Carbon Tetrachloride	ND		1.8
Bromodichloromethane	ND		0.9
1,2-Dichloropropane	ND		0.9
cis-1,3-Dichloropropene	ND		4.5
Trichloroethene	ND		0.9
Dibromochloromethane	ND		4.5
1,1,2-Trichloroethane	ND		2.7
Benzene	0.9		0.9
trans-1,3-Dichloropropene	ND		4.5
Bromoform	ND		3.6
4-Methyl-2-Pentanone	ND		4.5
2-Hexanone	ND		4.5
Tetrachloroethene	ND		0.9
1,1,2,2-Tetrachloroethane	ND		0.9
Toluene	0.8J		4.5
Chlorobenzene	ND		4.5
Ethylbenzene	0.5J		3.6
Styrene	ND		4.5
Xylene (Total)	0.8J		4.5

ENVIROTECH RESEARCH, INC.

Client ID: B-5C S-1
Site: Yonkers Waterfront

Lab Sample No: 93685
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a6978.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.9 g
Purge Volume: 5.0 ml
% Moisture: 6.1

**VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B**

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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17.			
18.			
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20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: B-5C S-1
Site: Yonkers Waterfront

Lab Sample No: 93685
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/12/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8808.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
% Moisture: 6

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Phenol	ND		890
2-Chlorophenol	ND		890
2-Methylphenol	ND		890
4-Methylphenol	ND		890
2-Nitrophenol	ND		890
2,4-Dimethylphenol	ND		890
2,4-Dichlorophenol	ND		890
4-Chloro-3-methylphenol	ND		890
2,4,6-Trichlorophenol	ND		890
2,4,5-Trichlorophenol	ND		890
2,4-Dinitrophenol	ND		3500
4-Nitrophenol	ND		3500
4,6-Dinitro-2-methylphenol	ND		3500
Pentachlorophenol	ND		3500

ENVIROTECH RESEARCH, INC.

Client ID: B-5C S-1
Site: Yonkers Waterfront

Lab Sample No: 93685
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/12/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8808.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
% Moisture: 6.

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
bis(2-Chloroethyl) ether	ND		89
1,3-Dichlorobenzene	ND		890
1,4-Dichlorobenzene	ND		890
1,2-Dichlorobenzene	ND		890
bis(2-chloroisopropyl) ether	ND		890
N-Nitroso-di-n-propylamine	ND		89
Hexachloroethane	ND		89
Nitrobenzene	ND		89
Isophorone	ND		890
bis(2-Chloroethoxy) methane	ND		890
1,2,4-Trichlorobenzene	ND		89
Naphthalene	ND		890
4-Chloroaniline	ND		890
Hexachlorobutadiene	ND		180
2-Methylnaphthalene	33 J		890
Hexachlorocyclopentadiene	ND		890
2-Chloronaphthalene	ND		890
2-Nitroaniline	ND		1800
Dimethylphthalate	ND		890
Acenaphthylene	23 J		890
2,6-Dinitrotoluene	ND		180
3-Nitroaniline	ND		1800
Acenaphthene	19 J		890
Dibenzofuran	ND		890
2,4-Dinitrotoluene	ND		180
Diethylphthalate	ND		890
4-Chlorophenyl-phenylether	ND		890
Fluorene	24 J		890
4-Nitroaniline	ND		1800
N-Nitrosodiphenylamine	ND		890
4-Bromophenyl-phenylether	ND		890
Hexachlorobenzene	ND		89
Phenanthrene	200 J		890
Anthracene	56 J		890

ENVIROTECH RESEARCH, INC.

Client ID: B-5C S-1
Site: Yonkers Waterfront

Lab Sample No: 93685
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/12/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8808.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
% Moisture: 6

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Carbazole	ND	890
Di-n-butylphthalate	ND	890
Fluoranthene	390 J	890
Pyrene	430 J	890
Butylbenzylphthalate	ND	890
3,3'-Dichlorobenzidine	ND	1800
Benzo(a)anthracene	170	89
Chrysene	200 J	890
bis(2-Ethylhexyl)phthalate	340 J	890
Di-n-octylphthalate	ND	890
Benzo(b)fluoranthene	280	89
Benzo(k)fluoranthene	90	89
Benzo(a)pyrene	180	89
Indeno(1,2,3-cd)pyrene	75 J	89
Dibenz(a,h)anthracene	ND	89
Benzo(g,h,i)perylene	84 J	890

ENVIROTECH RESEARCH, INC.

Client ID: B-5C S-1
Site: Yonkers Waterfront

Lab Sample No: 93685
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/12/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8808.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
% Moisture: 6.1

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	14.56	760	
2. Unknown	15.10	4200	
3. Unknown	26.08	820	
4. Unknown Alkane/Unknown	26.77	1000	
5. Unknown Alkane/Unknown	27.69	960	
6. Unknown	27.82	760	
7. Unknown	28.80	990	
8. Unknown	28.93	1600	
9. Unknown	29.55	1100	
10. Unknown	30.55	2000	
11. Unknown	31.81	2400	
12. Unknown	33.81	760	
13.			
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TOTAL ESTIMATED CONCENTRATION

17350

ENVIROTECH RESEARCH, INC.

Client ID: B-5C S-1
Site: Yonkers Waterfront

Lab Sample ID: 93685
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf011685.d
Rear File ID: pr011685.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 6

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016	ND		71	R
Aroclor-1221	ND		71	R
Aroclor-1232	ND		71	R
Aroclor-1242	ND		71	R
Aroclor-1248	ND		71	R
Aroclor-1254	ND		71	R
Aroclor-1260	ND		71	R
Aroclor-1262	ND		71	R
Aroclor-1268	ND		71	R

ENVIROTECH RESEARCH, INC.

Client ID: B-5C_S-1A1
Site: Yonkers Waterfront

Lab Sample ID: 93685A1
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/20/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC4.i
Front File ID: wf016968.d
Rear File ID: wr016968.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 6

ORGANOCHLORINE PESTICIDES - GC/ECD METHOD 8081A

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg	<u>Column</u>
Chlordane	210	71	R

ENVIROTECH RESEARCH, INC.

Client ID: B-5C S-1
Site: Yonkers Waterfront

Lab Sample No: 93685
Lab Job No: 1685

Date Sampled: 10/30/98
Date Received: 10/30/98

Matrix: SOLID
Level: LOW
% Moisture: 6.1

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Aluminum	7050	17.9		P
Antimony	ND	0.94	N	P
Arsenic	1.8	0.60		P
Barium	38.7	0.30	B	P
Beryllium	0.23	0.043	B	P
Cadmium	ND	0.085		P
Calcium	78800	43.7		P
Chromium	10.5	0.23	*	P
Cobalt	7.3	0.28	B	P
Copper	28.0	0.62		P
Iron	20300	10.1		P
Lead	74.4	0.43		P
Magnesium	29100	14.8		P
Manganese	285	0.19		P
Mercury	0.03	0.018	B	CV
Nickel	13.5	0.45		P
Potassium	712	52.2	B	P
Selenium	ND	0.89		P
Silver	ND	0.30		P
Sodium	690	103	B	P
Thallium	ND	0.96		P
Vanadium	41.4	0.55		P
Zinc	50.3	2.1	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: B-6C S-1
Site: Yonkers Waterfront

Lab Sample No: 93686
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/10/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b8965.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.1 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND	550
Bromomethane	ND	550
Vinyl Chloride	ND	550
Chloroethane	ND	550
Methylene Chloride	ND	330
Acetone	ND	550
Carbon Disulfide	ND	550
1,1-Dichloroethene	ND	220
1,1-Dichloroethane	ND	550
trans-1,2-Dichloroethene	ND	550
cis-1,2-Dichloroethene	ND	550
Chloroform	ND	550
1,2-Dichloroethane	ND	220
2-Butanone	ND	550
1,1,1-Trichloroethane	ND	550
Carbon Tetrachloride	ND	220
Bromodichloromethane	ND	110
1,2-Dichloropropane	ND	110
cis-1,3-Dichloropropene	ND	550
Trichloroethene	ND	110
Dibromochloromethane	ND	550
1,1,2-Trichloroethane	ND	330
Benzene	ND	110
trans-1,3-Dichloropropene	ND	550
Bromoform	ND	440
4-Methyl-2-Pentanone	ND	550
2-Hexanone	ND	550
Tetrachloroethene	ND	110
1,1,2,2-Tetrachloroethane	ND	110
Toluene	ND	550
Chlorobenzene	ND	550
Ethylbenzene	ND	440
Styrene	ND	550
Xylene (Total)	ND	550

ENVIROTECH RESEARCH, INC.

Client ID: B-6C S-1
Site: Yonkers Waterfront

Lab Sample No: 93686
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/10/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b8965.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.1 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.0

**VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B**

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Propane, 2-methoxy-2-methyl-	8.27	2000	
2. Unknown Siloxane	17.71	850	
3.			
4.			
5.			
6.			
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TOTAL ESTIMATED CONCENTRATION

2850

ENVIROTECH RESEARCH, INC.

Client ID: B-6C S-1
Site: Yonkers Waterfront

Lab Sample No: 93686
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/12/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8807.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Phenol	ND	1900
2-Chlorophenol	ND	1900
2-Methylphenol	ND	1900
4-Methylphenol	ND	1900
2-Nitrophenol	ND	1900
2,4-Dimethylphenol	ND	1900
2,4-Dichlorophenol	ND	1900
4-Chloro-3-methylphenol	ND	1900
2,4,6-Trichlorophenol	ND	1900
2,4,5-Trichlorophenol	ND	1900
2,4-Dinitrophenol	ND	7500
4-Nitrophenol	ND	7500
4,6-Dinitro-2-methylphenol	ND	7500
Pentachlorophenol	ND	7500

ENVIROTECH RESEARCH, INC.

Client ID: B-6C-S-1
Site: Yonkers Waterfront

Lab Sample No: 93686
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/12/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8807.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
bis(2-Chloroethyl) ether	ND		190
1,3-Dichlorobenzene	ND		1900
1,4-Dichlorobenzene	ND		1900
1,2-Dichlorobenzene	ND		1900
bis(2-chloroisopropyl) ether	ND		1900
N-Nitroso-di-n-propylamine	ND		190
Hexachloroethane	ND		190
Nitrobenzene	ND		190
Isophorone	ND		1900
bis(2-Chloroethoxy) methane	ND		1900
1,2,4-Trichlorobenzene	ND		190
Naphthalene	ND		1900
4-Chloroaniline	ND		1900
Hexachlorobutadiene	ND		370
2-Methylnaphthalene	ND		1900
Hexachlorocyclopentadiene	ND		1900
2-Chloronaphthalene	ND		1900
2-Nitroaniline	ND		3700
Dimethylphthalate	ND		1900
Acenaphthylene	ND		1900
2,6-Dinitrotoluene	ND		370
3-Nitroaniline	ND		3700
Acenaphthene	310 J		1900
Dibenzofuran	ND		1900
2,4-Dinitrotoluene	ND		370
Diethylphthalate	ND		1900
4-Chlorophenyl-phenylether	ND		1900
Fluorene	ND		1900
4-Nitroaniline	ND		3700
N-Nitrosodiphenylamine	ND		1900
4-Bromophenyl-phenylether	ND		1900
Hexachlorobenzene	ND		190
Phenanthrene	100 J		1900
Anthracene	ND		1900

ENVIROTECH RESEARCH, INC.

Client ID: B-6C_S-1
Site: Yonkers Waterfront

Lab Sample No: 93686
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/12/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8807.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Carbazole		ND	1900
Di-n-butylphthalate		ND	1900
Fluoranthene	130	J	1900
Pyrene	220	J	1900
Butylbenzylphthalate		ND	1900
3,3'-Dichlorobenzidine		ND	3700
Benzo(a)anthracene		ND	190
Chrysene		ND	1900
bis(2-Ethylhexyl)phthalate		ND	1900
Di-n-octylphthalate		ND	1900
Benzo(b)fluoranthene	73	J	190
Benzo(k)fluoranthene		ND	190
Benzo(a)pyrene	66	J	190
Indeno(1,2,3-cd)pyrene		ND	190
Dibenz(a,h)anthracene		ND	190
Benzo(g,h,i)perylene	43	J	1900

ENVIROTECH RESEARCH, INC.

Client ID: B-6C S-1
Site: Yonkers Waterfront

Lab Sample No: 93686
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/12/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8807.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 11.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C13H28 Alkane	15.29	11000	
2. Unknown Cycloalkane/Unknown	15.67	5000	
3. C14H30 Alkane	15.89	11000	
4. Unknown	15.93	4400	
5. C14H30 Alkane	16.33	6400	
6. Unknown Alkane	16.89	14000	
7. Unknown	17.12	7400	
8. Unknown Alkane	17.65	15000	
9. Trimethylnaphthalene isomer	18.29	4600	
10. Trimethylnaphthalene isomer	18.52	4800	
11. Trimethylnaphthalene isomer	18.64	5700	
12. Trimethylnaphthalene isomer/Unknown	18.79	4800	
13. Unknown Alkane	19.18	13000	
14. Unknown Alkane	19.63	16000	
15. Dimethyl-1,1-biphenyl isomer	19.99	5500	
16. C20H42 Alkane	20.39	8800	
17. Unknown	20.77	4100	
18. Unknown Alkane/Unknown	20.97	4100	
19. Methyl dibenzothiophene isomer	21.13	4900	
20. Dimethyldibenzothiophene isomer	21.95	3800	
21. _____			
22. _____			
23. _____			
24. _____			
25. _____			
26. _____			
27. _____			
28. _____			
29. _____			
30. _____			
TOTAL ESTIMATED CONCENTRATION		154300	

ENVIROTECH RESEARCH, INC.

Client ID: B-6C S-1
Site: Yonkers Waterfront

Lab Sample ID: 93686
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf011686.d
Rear File ID: pr011686.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 11

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		75	R
Aroclor-1221	ND		75	R
Aroclor-1232	ND		75	R
Aroclor-1242	ND		75	R
Aroclor-1248	ND		75	R
Aroclor-1254	ND		75	R
Aroclor-1260	ND		75	R
Aroclor-1262	ND		75	R
Aroclor-1268	ND		75	R

ENVIROTECH RESEARCH, INC.

Client ID: B-6C_S-1A1
Site: Yonkers Waterfront

Lab Sample ID: 93686A1
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/20/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC4.i
Front File ID: wf016973.d
Rear File ID: wr016973.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 11

ORGANOCHLORINE PESTICIDES - GC/ECD METHOD 8081A

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg	<u>Column</u>
Chlordane	190	75	R

ENVIROTECH RESEARCH, INC.

Client ID: B-6C S-1
Site: Yonkers Waterfront

Lab Sample No: 93686
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98

Matrix: SOLID
Level: LOW
% Moisture: 11.0

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Aluminum	6810	18.9		P
Antimony	ND	0.99	N	P
Arsenic	1.3	0.63		P
Barium	15.4	0.31	B	P
Beryllium	0.18	0.045	B	P
Cadmium	ND	0.090		P
Calcium	40900	18.4		P
Chromium	5.4	0.25	*	P
Cobalt	6.6	0.29	B	P
Copper	39.9	0.65		P
Iron	18800	10.7		P
Lead	11.3	0.45		P
Magnesium	18400	15.7		P
Manganese	212	0.20		P
Mercury	ND	0.019		CV
Nickel	8.1	0.47	B	P
Potassium	279	55.1	B	P
Selenium	ND	0.94		P
Silver	ND	0.31		P
Sodium	1150	108		P
Thallium	ND	1.0		P
Vanadium	41.3	0.58		P
Zinc	28.4	0.88	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: B-7C S-4
Site: Yonkers Waterfront

Lab Sample No: 93687
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/12/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a7041.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 18

VOLATILE ORGANICS - GC/MS METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	6.0
Bromomethane	ND	6.0
Vinyl Chloride	ND	6.0
Chloroethane	ND	6.0
Methylene Chloride	2.4JB	3.6
Acetone	34	6.0
Carbon Disulfide	ND	6.0
1,1-Dichloroethene	ND	2.4
1,1-Dichloroethane	ND	6.0
trans-1,2-Dichloroethene	ND	6.0
cis-1,2-Dichloroethene	ND	6.0
Chloroform	ND	6.0
1,2-Dichloroethane	ND	2.4
2-Butanone	ND	6.0
1,1,1-Trichloroethane	ND	6.0
Carbon Tetrachloride	ND	2.4
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.0
Trichloroethene	ND	1.2
Dibromochloromethane	ND	6.0
1,1,2-Trichloroethane	ND	3.6
Benzene	0.6J	1.2
trans-1,3-Dichloropropene	ND	6.0
Bromoform	ND	4.8
4-Methyl-2-Pentanone	ND	6.0
2-Hexanone	ND	6.0
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	1.0J	6.0
Chlorobenzene	ND	6.0
Ethylbenzene	ND	4.8
Styrene	ND	6.0
Xylene (Total)	ND	6.0

ENVIROTECH RESEARCH, INC.

Client ID: B-7C S-4
Site: Yonkers Waterfront

Lab Sample No: 93687
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/12/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a7041.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 18.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	3.65	6.6	
2. Propane, 2-methyl-	4.01	14	
3. Butane	4.32	16	
4. Butane, 2-methyl-	5.27	16	
5. Pentane	5.71	7.4	
6. Pentane, 2-methyl-	7.19	9.6	
7. Unknown Cycloalkane	13.56	7.0	
8. Trimethylbenzene isomer	16.22	7.9	
9. Unknown Siloxane	17.25	8.0	
10. _____			
11. _____			
12. _____			
13. _____			
14. _____			
15. _____			
16. _____			
17. _____			
18. _____			
19. _____			
20. _____			
21. _____			
22. _____			
23. _____			
24. _____			
25. _____			
26. _____			
27. _____			
28. _____			
29. _____			
30. _____			

TOTAL ESTIMATED CONCENTRATION

92

ENVIROTECH RESEARCH, INC.

Client ID: B-7C S-4
Site: Yonkers Waterfront

Lab Sample No: 93687
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8755.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 20.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Phenol		ND	8100
2-Chlorophenol		ND	8100
2-Methylphenol		ND	8100
4-Methylphenol		180 J	8100
2-Nitrophenol		ND	8100
2,4-Dimethylphenol		ND	8100
2,4-Dichlorophenol		ND	8100
4-Chloro-3-methylphenol		ND	8100
2,4,6-Trichlorophenol		ND	8100
2,4,5-Trichlorophenol		ND	8100
2,4-Dinitrophenol		ND	32000
4-Nitrophenol		ND	32000
4,6-Dinitro-2-methylphenol		ND	32000
Pentachlorophenol		ND	32000

ENVIROTECH RESEARCH, INC.

Client ID: ~~B-7C-S-4~~
Site: Yonkers Waterfront

Lab Sample No: ~~93687~~
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8755.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 20.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
bis(2-Chloroethyl) ether	ND		810
1,3-Dichlorobenzene	ND		8100
1,4-Dichlorobenzene	ND		8100
1,2-Dichlorobenzene	ND		8100
bis(2-chloroisopropyl) ether	ND		8100
N-Nitroso-di-n-propylamine	ND		810
Hexachloroethane	ND		810
Nitrobenzene	ND		810
Isophorone	ND		8100
bis(2-Chloroethoxy) methane	ND		8100
1,2,4-Trichlorobenzene	ND		810
Naphthalene	2200 J		8100
4-Chloroaniline	ND		8100
Hexachlorobutadiene	ND		1600
2-Methylnaphthalene	2700 J		8100
Hexachlorocyclopentadiene	ND		8100
2-Chloronaphthalene	ND		8100
2-Nitroaniline	ND		16000
Dimethylphthalate	ND		8100
Acenaphthylene	400 J		8100
2,6-Dinitrotoluene	ND		1600
3-Nitroaniline	ND		16000
Acenaphthene	1100 J		8100
Dibenzofuran	840 J		8100
2,4-Dinitrotoluene	ND		1600
Diethylphthalate	ND		8100
4-Chlorophenyl-phenylether	ND		8100
Fluorene	1400 J		8100
4-Nitroaniline	ND		16000
N-Nitrosodiphenylamine	ND		8100
4-Bromophenyl-phenylether	ND		8100
Hexachlorobenzene	ND		810
Phenanthrene	10000		8100
Anthracene	2700 J		8100

ENVIROTECH RESEARCH, INC.

Client ID: ~~B-7C-S-4~~
Site: Yonkers Waterfront

Lab Sample No: 93687
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8755.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 20.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Carbazole	880	J	8100
Di-n-butylphthalate	ND		8100
Fluoranthene	11000		8100
Pyrene	10000		8100
Butylbenzylphthalate	ND		8100
3,3'-Dichlorobenzidine	ND		16000
Benzo(a)anthracene	6100		810
Chrysene	7500	J	8100
bis(2-Ethylhexyl)phthalate	ND		8100
Di-n-octylphthalate	ND		8100
Benzo(b)fluoranthene	6800		810
Benzo(k)fluoranthene	2400		810
Benzo(a)pyrene	5300		810
Indeno(1,2,3-cd)pyrene	3100		810
Dibenz(a,h)anthracene	940		810
Benzo(g,h,i)perylene	3200	J	8100

ENVIROTECH RESEARCH, INC.

Client ID: B-7C S-4
Site: Yonkers Waterfront

Lab Sample No: 93687
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8755.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 20.0
% Moisture: 18.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C20H12 PAH	28.27	8800	
2. Unknown	31.95	7500	
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

16300

ENVIROTECH RESEARCH, INC.

Client ID: B-7C S-4
Site: Yonkers Waterfront

Lab Sample ID: 93687
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf011687.d
Rear File ID: pr011687.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 18

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>	<u>Column</u>
Aroclor-1016	ND		82	R
Aroclor-1221	ND		82	R
Aroclor-1232	ND		82	R
Aroclor-1242	ND		82	R
Aroclor-1248	ND		82	R
Aroclor-1254	ND		82	R
Aroclor-1260	ND		82	R
Aroclor-1262	ND		82	R
Aroclor-1268	ND		82	R

ENVIROTECH RESEARCH, INC.

Client ID: B-7C S-4
Site: Yonkers Waterfront

Lab Sample No: 93687
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98

Matrix: SOLID
Level: LOW
% Moisture: 18.0

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	2790	20.5		P
Antimony	ND	1.1	N	P
Arsenic	6.5	0.68		P
Barium	306	0.34		P
Beryllium	0.29	0.049	B	P
Cadmium	0.72	0.098	B	P
Calcium	4050	20.0		P
Chromium	15.0	0.27	*	P
Cobalt	5.7	0.32	B	P
Copper	87.6	0.71		P
Iron	17400	11.6		P
Lead	998	0.49		P
Magnesium	1780	17.0		P
Manganese	111	0.22		P
Mercury	1.6	0.020		CV
Nickel	15.0	0.51		P
Potassium	215	59.8	B	P
Selenium	ND	1.0		P
Silver	ND	0.34		P
Sodium	276	118	B	P
Thallium	ND	1.1		P
Vanadium	15.5	0.63		P
Zinc	751	0.95	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: B-8C S-1
Site: Yonkers Waterfront

Lab Sample No: 93688
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a6980.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 12

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.6
Bromomethane	ND	5.6
Vinyl Chloride	ND	5.6
Chloroethane	ND	5.6
Methylene Chloride	3.9B	3.3
Acetone	46	5.6
Carbon Disulfide	ND	5.6
1,1-Dichloroethene	ND	2.2
1,1-Dichloroethane	ND	5.6
trans-1,2-Dichloroethene	ND	5.6
cis-1,2-Dichloroethene	ND	5.6
Chloroform	ND	5.6
1,2-Dichloroethane	ND	2.2
2-Butanone	7.4	5.6
1,1,1-Trichloroethane	ND	5.6
Carbon Tetrachloride	ND	2.2
Bromodichloromethane	ND	1.1
1,2-Dichloropropane	ND	1.1
cis-1,3-Dichloropropene	ND	5.6
Trichloroethene	ND	1.1
Dibromochloromethane	ND	5.6
1,1,2-Trichloroethane	ND	3.3
Benzene	ND	1.1
trans-1,3-Dichloropropene	ND	5.6
Bromoform	ND	4.4
4-Methyl-2-Pentanone	ND	5.6
2-Hexanone	ND	5.6
Tetrachloroethene	ND	1.1
1,1,2,2-Tetrachloroethane	ND	1.1
Toluene	0.7J	5.6
Chlorobenzene	ND	5.6
Ethylbenzene	ND	4.4
Styrene	ND	5.6
Xylene (Total)	ND	5.6

ENVIROTECH RESEARCH, INC.

Client ID: B-8C S-1
Site: Yonkers Waterfront

Lab Sample No: 93688
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Analyzed: 11/09/98
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a6980.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 12.5

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
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TOTAL ESTIMATED CONCENTRATION		0.0	

ENVIROTECH RESEARCH, INC.

Client ID: B-8C S-1
Site: Yonkers Waterfront

Lab Sample No: 93688
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8745.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg <u>(Dry Weight)</u>	Limit <u>Units: ug/kg</u>
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

ENVIROTECH RESEARCH, INC.Client ID: B-8C-S-1
Site: Yonkers WaterfrontLab Sample No: 93688
Lab Job No: I685Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8745.dMatrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12**SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C**

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
bis(2-Chloroethyl) ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl) ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy) methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	ND	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	19 J	380
Anthracene	ND	380

ENVIROTECH RESEARCH, INC.

Client ID: ~~B-8C-S-1~~
Site: Yonkers Waterfront

Lab Sample No: 93688
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8745.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Carbazole	ND		380
Di-n-butylphthalate	ND		380
Fluoranthene	13 J		380
Pyrene	10 J		380
Butylbenzylphthalate	ND		380
3,3'-Dichlorobenzidine	ND		760
Benzo(a)anthracene	11 J		38
Chrysene	ND		380
bis(2-Ethylhexyl)phthalate	500		380
Di-n-octylphthalate	ND		380
Benzo(b)fluoranthene	ND		38
Benzo(k)fluoranthene	ND		38
Benzo(a)pyrene	ND		38
Indeno(1,2,3-cd)pyrene	ND		38
Dibenz(a,h)anthracene	ND		38
Benzo(g,h,i)perylene	ND		380

ENVIROTECH RESEARCH, INC.

Client ID: B-8C S-1
Site: Yonkers Waterfront

Lab Sample No: 93688
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/05/98
Date Analyzed: 11/10/98
GC Column: DB-5
Instrument ID: BNAMS2.i
Lab File ID: s8745.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12.5

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Benzenesulfonamide, N,4-dimethyl-	19.64	470	
2. Unknown	27.83	440	
3.			
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TOTAL ESTIMATED CONCENTRATION

910

ENVIROTECH RESEARCH, INC.

Client ID: B-8C S-1
Site: Yonkers Waterfront

Lab Sample ID: 93688
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98
Date Extracted: 11/02/98
Date Analyzed: 11/06/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf011681.d
Rear File ID: pr011681.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		76	R
Aroclor-1221	ND		76	R
Aroclor-1232	ND		76	R
Aroclor-1242	ND		76	R
Aroclor-1248	ND		76	R
Aroclor-1254	ND		76	R
Aroclor-1260	ND		76	R
Aroclor-1262	ND		76	R
Aroclor-1268	ND		76	R

ENVIROTECH RESEARCH, INC.

Client ID: B-8C S-1
Site: Yonkers Waterfront

Lab Sample No: 93688
Lab Job No: I685

Date Sampled: 10/30/98
Date Received: 10/30/98

Matrix: SOLID
Level: LOW
% Moisture: 12.5

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	8030	19.2		P
Antimony	ND	1.0	N	P
Arsenic	1.3	0.64		P
Barium	36.2	0.32	B	P
Beryllium	0.34	0.046	B	P
Cadmium	ND	0.091		P
Calcium	1340	18.7		P
Chromium	12.8	0.25	*	P
Cobalt	5.5	0.30	B	P
Copper	15.0	0.66		P
Iron	12500	10.9		P
Lead	36.7	0.46		P
Magnesium	2870	15.9		P
Manganese	230	0.21		P
Mercury	0.05	0.019		CV
Nickel	13.8	0.48		P
Potassium	522	56.0	B	P
Selenium	ND	0.96		P
Silver	ND	0.32		P
Sodium	425	110	B	P
Thallium	ND	1.0		P
Vanadium	17.5	0.59		P
Zinc	36.1	0.89	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

CHAIN OF CUSTODY

5891905

FIELD BOOK:

Page of

Client: AKRF	Bill To: AKRF	Signature: Kevin P. Reilly	Date/Time: 10-30-98 / 1530
Project Name/no.: Yonkers Waterfront	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1530
Client Contact: Kevin Reilly	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
STL Contact:	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
TAT: 1wk, 3wk, OTHER	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Proj. Type: NIPDES, NPDES, ISRA, CLP, CERCLA, RCRA, UST, ACO, MOA, OTHER, NIVE DEC	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Protocol: CLP SW846, EPA 600 DW, OTHER	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Reporting Type: NJ Reg Format, NJ Reduced Format, CLP, Level II, Level I (Data Sum), Other ASP DELIVERABLES	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Client ID (10 CHAR)	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Field Blank 10-30-98 1pm AQ	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Trip Blank 10-30-98 AQ	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
MN-4K (S-3) 10-30 945am SO	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
B-5C (S-1) 10-30 11am SO	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
B-6C (S-1) 10-30 1230pm SO	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
B-7C (S-4) 10-30 130pm SO	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
B-8C (S-1) 10-30 330pm SO	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Comments: (Please include hazards on site.)	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Print Name and Company	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Sampled By: Kevin Reilly	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Received By: Stu JACOBSO - ENVIROTECH	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Relinquished By: Stu JACOBSO	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Received By: [Signature]	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Relinquished By: [Signature]	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Received By: [Signature]	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710
Mtx = Matrix of Sample. (AI=Air, AQ=Aqueous, LE=Leachate, ML=Misc Liquid, MS=Misc Solids, OIL, SE=Sediment, SL=Sludge, SO=Soil)	PO#	Signature: [Signature]	Date/Time: 10/30/98 / 1710

(Copies: White and yellow copies should accompany samples to STL. The pink copy should be retained by the client.) See reverse for directions.



ENVIROTECH RESEARCH, INC.

Client ID: MW-2C
Site: Yonkers Waterfront

Lab Sample No: 95705
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/23/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c2976.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	220	6.0
Acetone	ND	10
Carbon Disulfide	ND	10
1,1-Dichloroethene	ND	4.0
1,1-Dichloroethane	ND	10
trans-1,2-Dichloroethene	ND	10
cis-1,2-Dichloroethene	ND	10
Chloroform	ND	10
1,2-Dichloroethane	ND	4.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	10
Carbon Tetrachloride	ND	4.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	2.0
cis-1,3-Dichloropropene	ND	10
Trichloroethene	ND	2.0
Dibromochloromethane	ND	10
1,1,2-Trichloroethane	ND	6.0
Benzene	ND	2.0
trans-1,3-Dichloropropene	ND	10
Bromoform	ND	8.0
4-Methyl-2-Pentanone	ND	10
2-Hexanone	ND	10
Tetrachloroethene	ND	2.0
1,1,2,2-Tetrachloroethane	ND	2.0
Toluene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	8.0
Styrene	ND	10
Xylene (Total)	ND	10

ENVIROTECH RESEARCH, INC.

Client ID: MW-2C
Site: Yonkers Waterfront

Lab Sample No: 95705
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/23/98
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c2976.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2.0

**VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B**

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2C
Site: Yonkers Waterfront

Lab Sample No: 95705
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8244.d

Matrix: WATER
Level: LOW
Sample Volume: 680 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	2.4J	15
2-Chlorophenol	ND	15
2-Methylphenol	ND	15
4-Methylphenol	0.4J	15
2-Nitrophenol	ND	15
2,4-Dimethylphenol	ND	15
2,4-Dichlorophenol	ND	15
4-Chloro-3-methylphenol	ND	15
2,4,6-Trichlorophenol	ND	15
2,4,5-Trichlorophenol	ND	15
2,4-Dinitrophenol	ND	59
4-Nitrophenol	ND	59
4,6-Dinitro-2-methylphenol	ND	59
Pentachlorophenol	ND	59

ENVIROTECH RESEARCH, INC.

Client ID: ~~MW-2C~~
Site: Yonkers Waterfront

~~Lab Sample No: 95705~~
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8244.d

Matrix: WATER
Level: LOW
Sample Volume: 680 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.5
1,3-Dichlorobenzene	ND	15
1,4-Dichlorobenzene	ND	15
1,2-Dichlorobenzene	ND	15
bis(2-chloroisopropyl) ether	ND	15
N-Nitroso-di-n-propylamine	ND	1.5
Hexachloroethane	ND	1.5
Nitrobenzene	ND	1.5
Isophorone	ND	15
bis(2-Chloroethoxy) methane	ND	15
1,2,4-Trichlorobenzene	ND	1.5
Naphthalene	ND	15
4-Chloroaniline	ND	15
Hexachlorobutadiene	ND	15
2-Methylnaphthalene	ND	2.9
Hexachlorocyclopentadiene	ND	15
2-Chloronaphthalene	ND	15
2-Nitroaniline	ND	15
Dimethylphthalate	ND	29
Acenaphthylene	ND	15
2,6-Dinitrotoluene	ND	15
3-Nitroaniline	ND	2.9
Acenaphthene	ND	29
Dibenzofuran	ND	15
2,4-Dinitrotoluene	ND	15
Diethylphthalate	ND	2.9
4-Chlorophenyl-phenylether	ND	15
Fluorene	ND	15
4-Nitroaniline	ND	15
N-Nitrosodiphenylamine	ND	29
4-Bromophenyl-phenylether	ND	15
Hexachlorobenzene	ND	15
Phenanthrene	ND	1.5
Anthracene	ND	15

ENVIROTECH RESEARCH, INC.

Client ID: ~~MW-2C~~
Site: Yonkers Waterfront

Lab Sample No: ~~95705~~
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8244.d

Matrix: WATER
Level: LOW
Sample Volume: 680 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	15
Di-n-butylphthalate	ND	15
Fluoranthene	ND	15
Pyrene	ND	15
Butylbenzylphthalate	ND	15
3,3'-Dichlorobenzidine	ND	29
Benzo(a)anthracene	ND	1.5
Chrysene	ND	15
bis(2-Ethylhexyl)phthalate	3.2J	15
Di-n-octylphthalate	ND	15
Benzo(b)fluoranthene	ND	1.5
Benzo(k)fluoranthene	ND	1.5
Benzo(a)pyrene	ND	1.5
Indeno(1,2,3-cd)pyrene	ND	1.5
Dibenz(a,h)anthracene	ND	1.5
Benzo(g,h,i)perylene	ND	15

ENVIROTECH RESEARCH, INC.

Client ID: MW-2C
Site: Yonkers Waterfront

Lab Sample No: 95705
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8244.d

Matrix: WATER
Level: LOW
Sample Volume: 680 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-2C
Site: Yonkers Waterfront

Lab Sample ID: 95705
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/13/98
Date Analyzed: 11/13/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 560 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: zf035269.d
Rear File ID: zr035269.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.89	R
Aroclor-1221	ND	0.89	R
Aroclor-1232	ND	0.89	R
Aroclor-1242	ND	0.89	R
Aroclor-1248	ND	0.89	R
Aroclor-1254	ND	0.89	R
Aroclor-1260	ND	0.89	R
Aroclor-1262	ND	0.89	R
Aroclor-1268	ND	0.89	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C
Site: Yonkers Waterfront

Lab Sample No: 95706
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/19/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b9122.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u>
		<u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	23	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	1.1J	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C
Site: Yonkers Waterfront

Lab Sample No: 95706
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/19/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b9122.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

**VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B**

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C
Site: Yonkers Waterfront

Lab Sample No: 95706
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8245.d

Matrix: WATER
Level: LOW
Sample Volume: 670 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	15
2-Chlorophenol	ND	15
2-Methylphenol	ND	15
4-Methylphenol	ND	15
2-Nitrophenol	ND	15
2,4-Dimethylphenol	ND	15
2,4-Dichlorophenol	ND	15
4-Chloro-3-methylphenol	ND	15
2,4,6-Trichlorophenol	ND	15
2,4,5-Trichlorophenol	ND	15
2,4-Dinitrophenol	ND	60
4-Nitrophenol	ND	60
4,6-Dinitro-2-methylphenol	ND	60
Pentachlorophenol	ND	60

ENVIROTECH RESEARCH, INC.Client ID: **MW-4C**
Site: Yonkers WaterfrontLab Sample No: **95706**
Lab Job No: I963Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8245.dMatrix: WATER
Level: LOW
Sample Volume: 670 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0**SEMI-VOLATILE ORGANICS - GC/MS**
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.5
1,3-Dichlorobenzene	ND	15
1,4-Dichlorobenzene	ND	15
1,2-Dichlorobenzene	ND	15
bis(2-chloroisopropyl) ether	ND	15
N-Nitroso-di-n-propylamine	ND	15
Hexachloroethane	ND	1.5
Nitrobenzene	ND	1.5
Isophorone	ND	1.5
bis(2-Chloroethoxy) methane	ND	15
1,2,4-Trichlorobenzene	ND	15
Naphthalene	ND	1.5
4-Chloroaniline	ND	15
Hexachlorobutadiene	ND	15
2-Methylnaphthalene	ND	3.0
Hexachlorocyclopentadiene	ND	15
2-Chloronaphthalene	ND	15
2-Nitroaniline	ND	15
Dimethylphthalate	ND	30
Acenaphthylene	ND	15
2,6-Dinitrotoluene	ND	15
3-Nitroaniline	ND	3.0
Acenaphthene	ND	30
Dibenzofuran	ND	15
2,4-Dinitrotoluene	ND	15
Diethylphthalate	ND	3.0
4-Chlorophenyl-phenylether	ND	15
Fluorene	ND	15
4-Nitroaniline	ND	15
N-Nitrosodiphenylamine	ND	30
4-Bromophenyl-phenylether	ND	15
Hexachlorobenzene	ND	15
Phenanthrene	ND	1.5
Anthracene	ND	15

ENVIROTECH RESEARCH, INC.

Client ID: **MW-4C**
Site: Yonkers Waterfront

Lab Sample No: **95706**
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8245.d

Matrix: WATER
Level: LOW
Sample Volume: 670 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	15
Di-n-butylphthalate	ND	15
Fluoranthene	ND	15
Pyrene	ND	15
Butylbenzylphthalate	ND	15
3,3'-Dichlorobenzidine	ND	30
Benzo(a)anthracene	ND	1.5
Chrysene	ND	15
bis(2-Ethylhexyl)phthalate	ND	15
Di-n-octylphthalate	ND	15
Benzo(b)fluoranthene	ND	1.5
Benzo(k)fluoranthene	ND	1.5
Benzo(a)pyrene	ND	1.5
Indeno(1,2,3-cd)pyrene	ND	1.5
Dibenz(a,h)anthracene	ND	1.5
Benzo(g,h,i)perylene	ND	15

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C
Site: Yonkers Waterfront

Lab Sample No: 95706
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8245.d

Matrix: WATER
Level: LOW
Sample Volume: 670 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C
Site: Yonkers Waterfront

Lab Sample ID: 95706
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/13/98
Date Analyzed: 11/13/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 710 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: zf035270.d
Rear File ID: zr035270.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.70	R
Aroclor-1221	ND	0.70	R
Aroclor-1232	ND	0.70	R
Aroclor-1242	ND	0.70	R
Aroclor-1248	ND	0.70	R
Aroclor-1254	ND	0.70	R
Aroclor-1260	ND	0.70	R
Aroclor-1262	ND	0.70	R
Aroclor-1268	ND	0.70	R

ENVIROTECH RESEARCH, INC.

Client ID: Field_Blank
Site: Yonkers Waterfront

Lab Sample No: 95709
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/19/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b9125.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	5.0
Acetone	ND	3.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	2.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	3.0
trans-1,3-Dichloropropene	ND	1.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	4.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	1.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	4.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: **Yonkers Waterfront**

Lab Sample No: **95709**
Lab Job No: **I963**

Date Sampled: **11/09/98**
Date Received: **11/09/98**
Date Analyzed: **11/19/98**
GC Column: **DB624**
Instrument ID: **VOAMS2.i**
Lab File ID: **b9125.d**

Matrix: **WATER**
Level: **LOW**
Purge Volume: **5.0 ml**
Dilution Factor: **1.0**

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: **Yonkers Waterfront**

Lab Sample No: **95709**
Lab Job No: **I963**

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8248.d

Matrix: **WATER**
Level: **LOW**
Sample Volume: **730 ml**
Extract Final Volume: **2.0 ml**
Dilution Factor: **1.0**

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	14
2-Chlorophenol	ND	14
2-Methylphenol	ND	14
4-Methylphenol	ND	14
2-Nitrophenol	ND	14
2,4-Dimethylphenol	ND	14
2,4-Dichlorophenol	ND	14
4-Chloro-3-methylphenol	ND	14
2,4,6-Trichlorophenol	ND	14
2,4,5-Trichlorophenol	ND	14
2,4-Dinitrophenol	ND	14
4-Nitrophenol	ND	55
4,6-Dinitro-2-methylphenol	ND	55
Pentachlorophenol	ND	55

ENVIROTECH RESEARCH, INC.

Client ID: ~~Field-Blank~~
Site: Yonkers Waterfront

Lab Sample No: ~~95709~~
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8248.d

Matrix: WATER
Level: LOW
Sample Volume: 730 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u>
		<u>Units: ug/l</u>
bis(2-Chloroethyl) ether	ND	1.4
1,3-Dichlorobenzene	ND	14
1,4-Dichlorobenzene	ND	14
1,2-Dichlorobenzene	ND	14
bis(2-chloroisopropyl) ether	ND	14
N-Nitroso-di-n-propylamine	ND	1.4
Hexachloroethane	ND	1.4
Nitrobenzene	ND	1.4
Isophorone	ND	14
bis(2-Chloroethoxy) methane	ND	14
1,2,4-Trichlorobenzene	ND	1.4
Naphthalene	ND	14
4-Chloroaniline	ND	14
Hexachlorobutadiene	ND	2.7
2-Methylnaphthalene	ND	14
Hexachlorocyclopentadiene	ND	14
2-Chloronaphthalene	ND	14
2-Nitroaniline	ND	27
Dimethylphthalate	ND	14
Acenaphthylene	ND	14
2,6-Dinitrotoluene	ND	2.7
3-Nitroaniline	ND	27
Acenaphthene	ND	14
Dibenzofuran	ND	14
2,4-Dinitrotoluene	ND	2.7
Diethylphthalate	ND	14
4-Chlorophenyl-phenylether	ND	14
Fluorene	ND	14
4-Nitroaniline	ND	27
N-Nitrosodiphenylamine	ND	14
4-Bromophenyl-phenylether	ND	14
Hexachlorobenzene	ND	1.4
Phenanthrene	ND	14
Anthracene	ND	14

ENVIROTECH RESEARCH, INC.Client ID: Field Blank
Site: Yonkers WaterfrontLab Sample No: 95709
Lab Job No: I963Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8248.dMatrix: WATER
Level: LOW
Sample Volume: 730 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0**SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C**

<u>Parameter</u>	<u>Analytical Result</u>		<u>Quantitation</u>
	<u>Units: ug/l</u>		<u>Limit</u>
Carbazole	ND		14
Di-n-butylphthalate	ND		14
Fluoranthene	ND		14
Pyrene	ND		14
Butylbenzylphthalate	ND		14
3,3'-Dichlorobenzidine	ND		14
Benzo(a)anthracene	ND		27
Chrysene	ND		1.4
bis(2-Ethylhexyl)phthalate	ND		14
Di-n-octylphthalate	ND		14
Benzo(b)fluoranthene	ND		14
Benzo(k)fluoranthene	ND		1.4
Benzo(a)pyrene	ND		1.4
Indeno(1,2,3-cd)pyrene	ND		1.4
Dibenz(a,h)anthracene	ND		1.4
Benzo(g,h,i)perylene	ND		14

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank
Site: Yonkers Waterfront

Lab Sample No: 95709
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8248.d

Matrix: WATER
Level: LOW
Sample Volume: 730 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		0.0	

ENVIROTECH RESEARCH, INC.

Client ID: **Field Blank**
Site: **Yonkers Waterfront**

Lab Sample ID: **95709**
Lab Job No: **I963**

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/13/98
Date Analyzed: 11/13/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: **WATER**
Sample Volume: **670 ml**
Extract Final Volume: **5.0 ml**
Dilution Factor: **1.0**
Front File ID: **zf035273.d**
Rear File ID: **zr035273.d**

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.75	R
Aroclor-1221	ND	0.75	R
Aroclor-1232	ND	0.75	R
Aroclor-1242	ND	0.75	R
Aroclor-1248	ND	0.75	R
Aroclor-1254	ND	0.75	R
Aroclor-1260	ND	0.75	R
Aroclor-1262	ND	0.75	R
Aroclor-1268	ND	0.75	R

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 95710
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/19/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b9126.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS METHOD 8260B

Parameter	Analytical Result	Quantitation
	Units: ug/l	Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

Client ID: Trip Blank
Site: Yonkers Waterfront

Lab Sample No: 95710
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/19/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b9126.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

ENVIROTECH RESEARCH, INC.

Client ID: MW-4AC
Site: Yonkers Waterfront

Lab Sample No: 95711
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/22/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b9170.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2.0

VOLATILE ORGANICS - GC/MS METHOD 8260B

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	10
Acetone	260	6.0
Carbon Disulfide	ND	10
1,1-Dichloroethene	ND	10
1,1-Dichloroethane	ND	4.0
trans-1,2-Dichloroethene	ND	10
cis-1,2-Dichloroethene	ND	10
Chloroform	ND	10
1,2-Dichloroethane	ND	10
2-Butanone	ND	4.0
1,1,1-Trichloroethane	ND	10
Carbon Tetrachloride	ND	10
Bromodichloromethane	ND	4.0
1,2-Dichloropropane	ND	2.0
cis-1,3-Dichloropropene	ND	2.0
Trichloroethene	ND	10
Dibromochloromethane	ND	2.0
1,1,2-Trichloroethane	ND	10
Benzene	ND	6.0
trans-1,3-Dichloropropene	ND	2.0
Bromoform	ND	10
4-Methyl-2-Pentanone	ND	8.0
2-Hexanone	ND	10
Tetrachloroethene	ND	10
1,1,2,2-Tetrachloroethane	ND	2.0
Toluene	ND	2.0
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Styrene	ND	8.0
Xylene (Total)	ND	10
	ND	10

ENVIROTECH RESEARCH, INC.

Client ID: MW-4AC
Site: Yonkers Waterfront

Lab Sample No: 95711
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Analyzed: 11/22/98
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b9170.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		0.0	

ENVIROTECH RESEARCH, INC.

Client ID: MW-4AC
Site: Yonkers Waterfront

Lab Sample No: 95711
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8249.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	14
2-Chlorophenol	ND	14
2-Methylphenol	ND	14
4-Methylphenol	ND	14
2-Nitrophenol	ND	14
2,4-Dimethylphenol	ND	14
2,4-Dichlorophenol	ND	14
4-Chloro-3-methylphenol	ND	14
2,4,6-Trichlorophenol	ND	14
2,4,5-Trichlorophenol	ND	14
2,4-Dinitrophenol	ND	57
4-Nitrophenol	ND	57
4,6-Dinitro-2-methylphenol	ND	57
Pentachlorophenol	ND	57

ENVIROTECH RESEARCH, INC.

Client ID: MW-4AC
Site: Yonkers Waterfront

Lab Sample No: 95711
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8249.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	14
2-Chlorophenol	ND	14
2-Methylphenol	ND	14
4-Methylphenol	ND	14
2-Nitrophenol	ND	14
2,4-Dimethylphenol	ND	14
2,4-Dichlorophenol	ND	14
4-Chloro-3-methylphenol	ND	14
2,4,6-Trichlorophenol	ND	14
2,4,5-Trichlorophenol	ND	14
2,4-Dinitrophenol	ND	57
4-Nitrophenol	ND	57
4,6-Dinitro-2-methylphenol	ND	57
Pentachlorophenol	ND	57

ENVIROTECH RESEARCH, INC.Client ID: **MW-4AC**
Site: Yonkers WaterfrontLab Sample No: **95711**
Lab Job No: **I963**Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8249.dMatrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0**SEMI-VOLATILE ORGANICS - GC/MS**
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u>		<u>Quantitation</u>
	<u>Units: ug/l</u>		<u>Limit</u>
bis(2-Chloroethyl) ether	ND		1.4
1,3-Dichlorobenzene	ND		14
1,4-Dichlorobenzene	ND		14
1,2-Dichlorobenzene	ND		14
bis(2-chloroisopropyl) ether	ND		14
N-Nitroso-di-n-propylamine	ND		14
Hexachloroethane	ND		1.4
Nitrobenzene	ND		1.4
Isophorone	ND		1.4
bis(2-Chloroethoxy) methane	ND		14
1,2,4-Trichlorobenzene	ND		14
Naphthalene	ND		1.4
4-Chloroaniline	ND		14
Hexachlorobutadiene	ND		14
2-Methylnaphthalene	ND		2.8
Hexachlorocyclopentadiene	ND		14
2-Chloronaphthalene	ND		14
2-Nitroaniline	ND		14
Dimethylphthalate	ND		28
Acenaphthylene	ND		14
2,6-Dinitrotoluene	ND		14
3-Nitroaniline	ND		2.8
Acenaphthene	ND		28
Dibenzofuran	ND		14
2,4-Dinitrotoluene	ND		14
Diethylphthalate	ND		2.8
4-Chlorophenyl-phenylether	ND		14
Fluorene	ND		14
4-Nitroaniline	ND		14
N-Nitrosodiphenylamine	ND		28
4-Bromophenyl-phenylether	ND		14
Hexachlorobenzene	ND		14
Phenanthrene	ND		1.4
Anthracene	ND		14

ENVIROTECH RESEARCH, INC.

Client ID: MW-4AC
Site: Yonkers Waterfront

Lab Sample No: 95711
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8249.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u>
Carbazole	ND	14
Di-n-butylphthalate	ND	14
Fluoranthene	ND	14
Pyrene	ND	14
Butylbenzylphthalate	ND	14
3,3'-Dichlorobenzidine	ND	14
Benzo(a)anthracene	ND	28
Chrysene	ND	1.4
bis(2-Ethylhexyl)phthalate	ND	14
Di-n-octylphthalate	ND	14
Benzo(b)fluoranthene	ND	14
Benzo(k)fluoranthene	ND	1.4
Benzo(a)pyrene	ND	1.4
Indeno(1,2,3-cd)pyrene	ND	1.4
Dibenz(a,h)anthracene	ND	1.4
Benzo(g,h,i)perylene	ND	14

ENVIROTECH RESEARCH, INC.

Client ID: MW-4AC
Site: Yonkers Waterfront

Lab Sample No: 95711
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/16/98
Date Analyzed: 11/18/98
GC Column: DB-5
Instrument ID: BNAMS5.i
Lab File ID: q8249.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS TENTATIVELY IDENTIFIED COMPOUNDS METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Unknown	11.49	43	
2. Unknown	12.56	14	
3. Unknown	15.03	16	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
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23.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

73

ENVIROTECH RESEARCH, INC.

Client ID: MW-4AC
Site: Yonkers Waterfront

Lab Sample ID: 95711
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98
Date Extracted: 11/13/98
Date Analyzed: 11/13/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC3.i

Matrix: WATER
Sample Volume: 610 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: zf035274.d
Rear File ID: zr035274.d

ORGANOCHLORINE PCBs - GC/ECD METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>	
		<u>Limit</u> <u>Units: ug/l</u>	<u>Quant.</u> <u>Column</u>
Aroclor-1016	ND	0.82	R
Aroclor-1221	ND	0.82	R
Aroclor-1232	ND	0.82	R
Aroclor-1242	ND	0.82	R
Aroclor-1248	ND	0.82	R
Aroclor-1254	ND	0.82	R
Aroclor-1260	ND	0.82	R
Aroclor-1262	ND	0.82	R
Aroclor-1268	ND	0.82	R

ENVIROTECH RESEARCH, INC.

Client ID: MW-2C-Dis
Site: Yonkers Waterfront

Lab Sample No: 95712
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	ND	58.2		P
Antimony	ND	4.6		P
Arsenic	ND	3.8		P
Barium	592	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	187000	42.2		P
Chromium	ND	1.0		P
Cobalt	1.9	1.2	B	P
Copper	ND	3.5		P
Iron	333	41.5		P
Lead	ND	2.5		P
Magnesium	18900	40.3		P
Manganese	3180	1.1		P
Mercury	ND	0.10		CV
Nickel	2.9	2.1	B	P
Potassium	18800	1647		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	89800	426		P
Thallium	ND	4.8		P
Vanadium	ND	1.9		P
Zinc	276	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: MW-4C-Dis
Site: Yonkers Waterfront

Lab Sample No: 95713
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	305	116	B	P
Antimony	ND	9.2		P
Arsenic	9.0	7.6		P
Barium	446	2.8		P
Beryllium	ND	0.40		P
Cadmium	ND	0.40		P
Calcium	267000	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	3650	41.5		P
Lead	5.1	2.5	B	P
Magnesium	156000	40.3		P
Manganese	4870	1.1		P
Mercury	ND	0.10		CV
Nickel	ND	2.1		P
Potassium	65500	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	1330000	426		P
Thallium	ND	4.8		P
Vanadium	ND	1.9		P
Zinc	107	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: Field Blank-Dis
Site: Yonkers Waterfront

Lab Sample No: 95716
Lab Job No: 1963

Date Sampled: 11/09/98
Date Received: 11/09/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Aluminum	ND	58.2		P
Antimony	ND	4.6		P
Arsenic	ND	3.8		P
Barium	ND	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	ND	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	ND	41.5		P
Lead	ND	2.5		P
Magnesium	ND	40.3		P
Manganese	ND	1.1		P
Mercury	ND	0.10		CV
Nickel	ND	2.1		P
Potassium	ND	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	ND	426		P
Thallium	ND	4.8		P
Vanadium	ND	1.9		P
Zinc	8.0	4.5	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: MW-4AC-Dis
Site: Yonkers Waterfront

Lab Sample No: 95717
Lab Job No: I963

Date Sampled: 11/09/98
Date Received: 11/09/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Aluminum	278	58.2	B	P
Antimony	ND	4.6		P
Arsenic	10.4	3.8		P
Barium	442	1.4		P
Beryllium	ND	0.20		P
Cadmium	ND	0.40		P
Calcium	261000	42.2		P
Chromium	ND	1.0		P
Cobalt	ND	1.2		P
Copper	ND	3.5		P
Iron	3590	41.5		P
Lead	5.3	2.5	B	P
Magnesium	153000	40.3		P
Manganese	4740	1.1		P
Mercury	ND	0.10		CV
Nickel	ND	2.1		P
Potassium	59200	300		P
Selenium	ND	4.8		P
Silver	ND	1.4		P
Sodium	1290000	426		P
Thallium	ND	4.8		P
Vanadium	ND	1.9		P
Zinc	90.1	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

STL - Envirotech

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 1

Name (for report and invoice) Yonkers Waterfront		Samplers Name (Printed) KEVIN BULLY		Site/Project Identification YONKERS WATERFRONT																																																	
Company AKRF, INC.		P.O. # 73004		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>																																																	
Address 34 S. BROWNSWAY		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		Regulatory Program:																																																	
City WHITE PLAINS		State NY		ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)																																																	
Phone 914 949 7336		Fax 914 949 7557		<table border="1"> <tr> <th>Sample Identification</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th>No. of Cont.</th> <th>LAB USE ONLY Project No:</th> </tr> <tr> <td>MW-2C</td> <td>11-9-98</td> <td></td> <td>AG</td> <td>6</td> <td>95705</td> </tr> <tr> <td>MW-4C</td> <td>11-9-98</td> <td></td> <td>AG</td> <td>6</td> <td>95706</td> </tr> <tr> <td>MW-3A</td> <td>11-9-98</td> <td></td> <td>AG</td> <td>6</td> <td>95707</td> </tr> <tr> <td>MW-4A</td> <td>11-9-98</td> <td></td> <td>AG</td> <td>6</td> <td>95708</td> </tr> <tr> <td>FIELD BLANK</td> <td>11-9-98</td> <td></td> <td>AG</td> <td>6</td> <td>95709</td> </tr> <tr> <td>TRIP BLANK</td> <td>11-9-98</td> <td></td> <td>AG</td> <td>6</td> <td>95710</td> </tr> <tr> <td>MW-4AC</td> <td>11/9/98 1020</td> <td></td> <td>AG</td> <td>6</td> <td>95711</td> </tr> </table>		Sample Identification	Date	Time	Matrix	No. of Cont.	LAB USE ONLY Project No:	MW-2C	11-9-98		AG	6	95705	MW-4C	11-9-98		AG	6	95706	MW-3A	11-9-98		AG	6	95707	MW-4A	11-9-98		AG	6	95708	FIELD BLANK	11-9-98		AG	6	95709	TRIP BLANK	11-9-98		AG	6	95710	MW-4AC	11/9/98 1020		AG	6	95711
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Preservation Used (1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH, 6 = Other, 7 = Other)																																																					

Special Instructions		Samples were Field Filtered		Water Metals Filtered (Yes/No)?	
Relinquished by	Company	Date / Time	Received by	Company	
1) Kevin R. Buggy	AKRF, INC.	11-9-98 3:30	1) Kevin Buggy	EDVIROTECH	
Relinquished by	Company	Date / Time	Received by	Company	
2) Kevin R. Buggy	EDVIROTECH	11-9-98 1640	2) R. P. Benson	EDVIROTECH	
Relinquished by	Company	Date / Time	Received by	Company	
3)	Company	1	3)	Company	
Relinquished by	Company	Date / Time	Received by	Company	
4)	Company	1	4)	Company	

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)