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SUMMARY REPORT

OF

REMEDIAL ACTIVITIES

Performed on the "Beacon Waterfront" Site
Formerly Known as the Garret Storm, Inc. MOSF Site

Located off

Ferry Road
City of Beacon
Dutchess County, New York

Voluntary Cleanup Index: D3-0004-99-01

ESI File: SG96152.50R

June 2003
(Revised August 2003)

Prepared By:

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The undersigned has reviewed this Report and certifies to Scenic Hudson Land Trust, Inc. that the information provided in this document is accurate as of the date of issuance by this office. Any and all questions or comments, including requests for additional information, should be submitted to the undersigned.

I certify that the Remedial Action Workplan was implemented and that all activities were completed substantially in accordance with the Department-approved Remedial Action Workplan and were personally witnessed by a person under my direct supervision

Paul H. Ciminello
President

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1.0 INTRODUCTION

1.1 Purpose

This Summary Report of Remedial Activities (Report) summarizes all fieldwork completed by Ecosystems Strategies, Inc. (ESI) and its subcontractors, which was performed to satisfy the Workplan For Site Remediation Activities on the property known as "The Beacon Waterfront' Site Revised May 1999 (Workplan) during the period from Spring 2000 to April 2003, on the "Beacon Waterfront" Site (formerly known as the Garret Storm, Inc. Major Oil Storage Facility [MOSF]) located at Ferry Road in the City of Beacon, Dutchess County, New York. The work summarized in this Report was performed to address known soil and groundwater petroleum contamination identified by ESI and others during previous investigations of the property conducted from 1989 to the present.

The specific purpose of this Report is to satisfy the requirements set forth in the New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program and to document all remedial activities performed on a specified portion of the subject property. Remedial activities (see Section 2.1) were deemed necessary based upon information obtained from prior fieldwork, which revealed the presence of petroleum hydrocarbons in localized on-site soils and groundwater. This Report describes all soil excavation, fieldwork methodology, and soil/groundwater sampling procedures, includes discussions of the resulting analytical data from collected soil samples, and provides conclusions and recommendations drawn from the fieldwork and analytical data.

1.2 Limitations

This written analysis is a summary of fieldwork activities conducted on a specified portion of the Beacon Waterfront property and is not relevant to other portions of this property or any other property. It is a representation of those portions of the property analyzed as of the respective dates of fieldwork. This Report cannot be held accountable for activities or events resulting in contamination after the dates of fieldwork.

Services summarized in this Report were performed in accordance with generally accepted practices and established NYSDEC protocols. Unless specifically noted, the findings and conclusions contained herein must be considered not as scientific certainties but as probabilities based on professional judgment.

1.3 Site Location and Description

The subject property is defined as the approximate 6.9-acre Beacon Waterfront property located off Ferry Road in the City of Beacon, Dutchess County, New York. The property is an irregularly shaped parcel located between the Consolidated Railroad Corp. right-of-way and the Hudson River. An approximately 2.4-acre portion of the property forms a peninsula in the Hudson River. A former MOSF (the Garret Storm, Inc. site) located off the property ceased operations in 1992, and all on-site aboveground storage tanks (ASTs) were removed by July 1994. Former AST cradles and a pump house were removed from the site in October 1999. The western portion of the subject property is currently leased to the Dutchess Boat Club for use as a private marina and boat launch. A one-story clubhouse and shed are located off the peninsula.

The majority of the subject property is situated on a generally level plot with surface elevations ranging from approximately 5 to 10 feet above mean sea level (msl). There is a gradual upwards slope to the east, towards the Ferry Road Bridge. On-site groundwater is tidally influenced; the direction of groundwater flow is to the southwest at times of falling tides and to the northeast at times of rising tides. A map depicting the location of the subject property is provided in Appendix A of this Report.

The specified portion of the property on which soil remedial activities were conducted (hereafter referred to as the "Site") consists of an approximately 100 feet x 50 feet rectangular-shaped area located at the eastern end of the property, which included the former fuel distribution and storage area for the Garret Storm MOSF. Test pits were extended immediately east of soil removal activity. Monitoring wells are located throughout the Site as well as off-site to the north and south. A Fieldwork Map indicating specific site characteristics and sampling locations is located in Appendix A of this Report.

1.4 Previous Environmental Investigations

The Site has been the subject of several environmental investigations which have, in the opinion of the NYSDEC and this office, accurately and comprehensively documented on-site environmental conditions. Data from investigations conducted from 1989 to 1998 are summarized in Attachment B of the Workplan. Both soil and groundwater samples were analyzed to document site conditions. Soil data from 1989 (see Table 1 of the Workplan) generally documents the absence of elevated metals in both surface and subsurface soils, with the exception of elevated lead in one (1) surface sample and slightly elevated mercury in most soil samples. In addition, groundwater collected in 1989 (see Table 2 of the Workplan) documented the absence of volatile organic compounds (VOCs). Groundwater data generated in 1989 also documented the absence of polychlorinated bi-phenyls (PCBs).

Based on all work conducted prior to issuance of the of the Workplan, the following environmental conditions were known to exist on the Site:

- *Presence of Petroleum Hydrocarbons in Localized On-Site Soils*

  Surface and subgrade soils in the former fuel distribution area were known to contain concentrations of semi-volatile petroleum hydrocarbons, which resulted from former on-site fuel storage and handling activities. Test pits and borings extended on the Site documented the presence of petroleum-contaminated soils in the vicinity of the former fuel distribution area, with olfactory and visual evidence of contamination decreasing in soils to the south, east, and west (see the Fieldwork Map in Appendix A, for investigative and remedial locations). It was estimated that an area of approximately 5,000 square feet in the former fuel distribution/storage area was likely to contain significantly elevated hydrocarbon contamination.

  The Workplan recommended soil removal and subsequent soil sampling to document the integrity of remaining soils.

- *Presence of Dissolved Petroleum Hydrocarbons in On-site Groundwater*

  Groundwater on the Site, as documented by 1994 and 1997 data, contained low levels of dissolved semi-volatile petroleum hydrocarbons at the two (2) monitoring wells located in the fuel distribution area (wells RD-2 and RD-6). Data from 1994 groundwater sampling of RD-2 documented that NYSDEC water quality standards were exceeded for three (3)

hydrocarbons naphthalene (120 parts per billion [ppb, or µg/l], 1-methyl naphthalene (380 ppb), and 2-methyl naphthalene (480 ppb). Data from 1994 groundwater sampling of RD-6 documented that water quality standards were exceeded for one (1) hydrocarbon 2-methyl naphthalene (120 ppb). Groundwater samples analyzed in January 1997 documented the presence of methyl naphthalene in monitoring well RD-2 at 10 ppb and in monitoring well RD-6 at 5 ppb.

The source of these dissolved hydrocarbons was considered by this office and the NYSDEC to be the contaminated soil in the former fuel distribution area. The excavation of hydrocarbon-contaminated soils (see Section 2.0, below) reduced the likelihood of dissolved hydrocarbons remaining in on-site groundwater.

The Workplan recommended periodic groundwater monitoring, including the replacement of any wells damaged by soil removal activities.

- *Possible Presence of Undissolved Petroleum on Shallow Groundwater*

Petroleum sheens were noted in on-site wells in November 1994 and petroleum odors from purge water were noted during fieldwork conducted in January 1997. No periodic monitoring of petroleum sheens has been conducted to document temporal variations.

This office and the NYSDEC considered the source of documented sheens to be petroleum-contaminated soils, which were present on the Site. The removal of this contaminated soil reduced the likelihood of future sheening on groundwater.

2.0 Summary of Remediation Services

2.1 Summary of Services

ESI conducted the following remedial activities on the Site, which were identified and approved in the Remedial Action Workplan approved under the Voluntary Cleanup Agreement:

1. Supervised the demolition and removal of the on-site AST cradles and pump house.

2. Determined the presence or absence of an additional underground storage or overfill tank in the vicinity of the former fuel-distribution area;

3. Coordinated the excavation of a total of approximately 582 tons of petroleum contaminated soil from the former fuel-distribution area identified at the east end of the property, documenting proper off-site disposition; and,

4. Installed an additional groundwater monitoring well in the north portion of the excavated area to replace monitoring well RD-2, and monitored groundwater quality on a periodic basis.

2.2 Demolition Activities

2.2.1 Methodology

Demolition activity to remove the former on-site pump house and concrete AST cradles was conducted on October 18 and 19, 1999. Prior to commencement of demolition activity, personnel from the local electric utility disconnected overhead power lines, which had serviced the pump house structure. Subsequent to the removal of the power lines, H.B. Wiltse Contracting, Inc. (Wiltse) demolished the on-site pump house building and twenty-four (24) concrete AST cradles All solid waste generated from the pump house demolition activity was transferred to a waste disposal container provided by Royal Carting Company. Several days after the completion of demolition, the container was removed by Royal Carting Company. Concrete demolition material from the AST cradles was utilized as on-site fill material in the area of excavation described in the following paragraphs.

2.2.2 Observations

Surface soils located beneath the former pump house exhibited no visual or olfactory evidence of contamination. However, significant staining was noted in the area below the concrete AST cradles and in the area directly north of the former pump house in the fuel delivery area.

2.3 Excavation of Petroleum-Contaminated Soil

2.3.1 Site Preparation Services

Prior to the initiation of fieldwork, a request for a complete utility markout of the subject property was submitted by ESI, as required by New York State Department of Labor regulations. Confirmation of underground utility locations was secured, and a field check of the utility markout was conducted prior to excavation and removal of soil.

2.3.2 Excavation Methodology and Observations

Soil excavation was conducted by Wiltse (under the supervision of ESI personnel) on October 18, 19, and 20, 1999. All excavation was completed utilizing a track-mounted excavator. An assessment of subsurface soil characteristics, including soil type, the presence of foreign materials, field indications of contamination, and instrument indications of contamination (i.e. photo-ionization detector (PID) readings), was made by ESI personnel during the soil excavation. ESI personnel maintained field logs documenting the physical characteristics of the encountered soil, PID readings, and any field indications of contamination for all encountered material.

The approximate excavation area (located at the eastern end of the property) extended approximately 60 feet to the south and approximately 50 feet to the east from a point beneath the former pump house building. Maximum depth of the excavation was five (5) feet below surface grade (bsg). Excavated material encountered during remedial soil work consisted mostly of a medium to dark-brown soil and gravel mix containing high concentrations of black ash, slag and coal.

Based on field observations and previous laboratory data, excavated soils were stockpiled on, and covered with, 6-mil plastic sheeting at a designated on-site location pending off-site removal.

During soil excavation activities, monitoring wells RD-2 and RD-6, located in the former fuel storage and distribution area, were destroyed. The loss of these wells was anticipated in the Workplan.

The excavation site was backfilled utilizing on-site fill from a location approximately 30 feet west of the excavation. Fill material was comprised of medium-brown sand intermixed with cobbles, boulders, and concrete rubble. Due to the water content and instability of existing soils, this fill material was considered suitable. It was not necessary to import fill material from off-site during site restoration activities. A bulldozer was utilized to re-grade the entire area after backfilling.

On April 26, 2000, a total of approximately 582 tons of petroleum-contaminated stockpiled soil material was removed from the site by Mangiardi Brothers Trucking and delivered to TT Materials Corp. for proper disposal. Soil disposal manifests are included in Appendix B of this Report.

2.3.3 Sample Collection

After completion of the excavation described above, and prior to backfilling and site re-grading, confirmatory endpoint soil samples were collected from the excavation. All soil samples were collected in a manner consistent with NYSDEC sample collection protocols. Decontaminated stainless steel trowels and dedicated gloves were used at each sample location to place the material into clean laboratory supplied jars. All sample collection equipment was properly decontaminated prior to the initiation of sampling and between sample locations to avoid cross-contamination.

After all sample collection, the sample containers were placed in a cooler prior to transport to the laboratory. The soil samples were transported via courier to York Analytical Laboratories, Inc. (ELAP Certification Number 10854) for chemical analyses. Appropriate chain of custody procedures were followed.

Three (3) soil samples were collected from the excavation following the initial excavation activity during October 1999. Soil samples S-1 and S-3 were collected from the walls of the excavation. Sample Base 6' was collected from the base of the excavation. Upon completion of excavation services, standing water was noted in the excavation at a depth from 1-3 feet bsg. A petroleum sheen was observed on the water surface.

Five (5) additional soil samples were collected from the former excavation area on March 27 2003 as required by the NYSDEC to provide additional post excavation soil data. Soil samples 2PE-1, 2PE-2, 2PE-3, 2PE-4 and 2PE-5 were collected from various points throughout the former excavation from 5-7 feet in depth. Complete Laboratory Reports are provided in Appendix C.

2.3.4 Laboratory Analysis of Post-Excavation Samples

Laboratory Submission

Soil samples S-1, S-3, and Base 6', collected on October 19 and 20, 1999, were analyzed for a fraction of semi-volatile organic compounds (SVOCs) known as poly-nuclear aromatic hydrocarbons (PAHs), utilizing USEPA method 8270. Soil samples 2PE-1 (5-7') through 2PE-5 (5-7') collected on March 27, 2003 were analyzed for VOCs and PAHs (utilizing USEPA Methods 8021 and 8270, respectively) and RCRA metals. Laboratory analytical results are provided in Tables 4, 5, and 6 of Appendix D of this report.

Laboratory Results

October 1999 Preliminary Confirmatory Sampling

Soil samples S-1 and S-3 exhibited concentrations of four (4) PAHs below NYSDEC recommended soil cleanup objectives. Soil sample Base (6') did not exhibit concentrations of PAHs above minimum detection limits.

March 2003 Follow-up Confirmatory Sampling

Soil samples 2PE-1 (5-7'), 2PE-2 (5-7'), 2PE-4 (5-7') and 2PE-5 (5-7') exhibited concentrations of five (5) PAHs below NYSDEC recommended soil cleanup objectives. No PAHs were detected in soil sample 2PE-3 (5-7'). All five (5) soil samples exhibited concentrations of 1-5 VOCs at concentrations below NYSDEC recommended soil cleanup objectives. All soil samples exhibited concentrations of metals below NYSDEC recommended cleanup objectives, with the exception of marginal exceedences for arsenic and selenium in soil sample 2PE-1 (5-7').

2.3.5 Stockpile Analysis and Soil Disposal

Three (3) soil samples (SS-1, SS-2, and SS-3) were collected from the soil stockpile and were submitted for analysis of total petroleum hydrocarbons (TPH), VOCs, SVOCs, RCRA metals, PCBs, total sulphur, total cyanide, and PH in accordance with the requirements of the waste disposal facility.

Results of the sampling indicated the presence of chemical compounds (VOCs and PAHs) typically encountered in petroleum-contaminated soils. In addition to these petroleum contaminants, arsenic and lead were detected at concentrations exceeding established NYSDEC recommended soil cleanup objectives. Arsenic levels in the stockpile samples had a peak concentration of 35.2 parts per million (ppm, or mg/Kg) (recommended soil cleanup objective 7.5 ppm) and total lead levels had a peak concentration of 8,390 ppm (recommended soil cleanup objective is site background, typically 250 ppm in urban soils).

According to the soil repository guidelines, the identified levels of lead in the stockpiled soil exceeded established limits for total weight lead and additional testing was warranted. Arsenic was identified in the samples at acceptable concentrations.

As a result of the laboratory findings, ESI conducted additional sampling of the stockpiled soil. Twelve additional soil samples were collected from the stockpile. Grab samples were collected in a manner designed to determine the presence or absence of "hot spots" where lead levels may

be uncharacteristically high. Samples S1, S2, S3, S4, S5, and S6 were collected from the southern side of the stockpile and samples N1, N2, N3, N4, N5, and N6 were collected from the northern side of the soil stockpile. All samples were collected at 8' to 10' lateral intervals.

All soil samples were analyzed for total weight lead and leachable lead. Laboratory analysis of the soil samples indicated the presence of total lead levels ranging from 78.6 ppm to 3,390 ppm. Leachable lead is present at levels of 0.082 mg/l to 7.72 mg/l in the soil samples. Lead levels identified in soil sample S-2 exceeded the NYSDEC designated maximum contaminant level (MCL) for TCLP lead of 5.0 mg/l. The source of elevated lead levels in these stockpiled soil samples is unknown. Full laboratory reports for all analyzed soil samples are included in Appendix C of this Report.

Based upon the low lead levels detected in the majority of the stockpiled soil samples, a statistical analysis was submitted to the NYSDEC with a request that the stockpiled soil be disposed of as non-hazardous. After consideration of the analytical analysis submitted, the NYSDEC concurred that the on-site stockpile could be treated as non-hazardous petroleum contaminated soil. Despite written authorization from the NYSDEC, the soil repository would not accept the stockpiled soil.

TT Materials, a company which treats and recycles soil for use as paving material in the Earthpave system, was contacted regarding acceptance of the stockpiled soil. After several additional samples were submitted to meet TT Material's soil disposal analytical criteria (for TPH), the soil was accepted and processed by TT Materials (see Appendix C for laboratory results).

Approximately 142 tons of stockpiled soil was transferred to TT Materials between April 21 and April 22, 2000. The remainder of the stockpiled soil, approximately 440 tons, was transferred to TT Materials on April 26, 2000. Waste disposal manifests are included as Appendix B of this Report.

2.3.6 Site Restoration Activities

In October 1999, ESI personnel directed restoration activities at the eastern excavated portion of the Site, including the backfilling and re-grading of approximately 500 tons of imported, clean fill materials. Concrete rubble from the former tank cradles was used as suitable base fill material due to the presence of water in the excavation.

2.4 Underground Storage Tank Investigation

On October 20, 1999, test pits were extended in the eastern area of the property in the vicinity of soil piles that were suspected of containing an underground storage tank or overfill tank.

2.4.1 Methodology

Five (5) test pits were extended by Wiltse in areas suspected of containing USTs or petroleum overfill tanks. (The tanks were reportedly removed by the former property owner; the test pits were extended, however, to confirm this information). The suspected tank(s) were reportedly located in the eastern section of the property where a soil berm or pile was visible. The test pits were extended to a maximum depth of 7 feet bsg utilizing a track-mounted excavator. Material encountered during the extension of the test pits included coarse gravel, coal ash, and slag.

2.4.2 Observations

A petroleum odor and sheen were consistently noted on groundwater encountered at three (3) feet bsg during the excavation of test pits. No subsurface storage tanks (or related piping) were encountered during the extension of test pits.

2.5 Groundwater Monitoring

This section of the Report summarizes the installation and sampling of groundwater monitoring wells on the Site. Field observations of groundwater quality, and laboratory water quality data are presented below.

2.5.1 Installation and Monitoring of Groundwater Observation/Recovery Sumps

Following excavation activity on the subject property in October 1999, two (2) groundwater well observation/recovery sumps (O/RW-1 and O/RW-2) were installed on the Site. The sumps were installed within the perimeter of the excavation and soil removal activity areawith the expressed purpose of establishing a potential product skimming and recovery system in the event that measurable and recoverable concentrations of petroleum were encountered. NYSDEC representatives Larry Ricci and Pete DiCicco inspected the Site between October 18 and October 20, 1999 during the installation of the sumps. The NYSDEC endorsed the installation of the sumps as observation/recovery points.

The sumps were constructed of 18-inch diameter, 0.3-inch slotted ABS plastic pipe (schedule 40), and were approximately ten (10) feet in length. Two (2) pits were excavated to a depth of approximately seven (7) feet bsg. A sump pipe was inserted vertically into each of these pits with approximately three (3) feet of pipe protruding above surface grade. The area surrounding each of the pipes was then backfilled with existing on-site material and restored to grade. Each sump was fitted with a plastic end cap.

A petroleum sheen and droplets of free product were observed on groundwater in the excavation at a depth of 2-3 feet bsg during the installation of the sumps in October 1999. Observations in November and December 1999 indicated the limited presence of petroleum droplets in the sumps and absorbent material was utilized to remove the free product. Further observation during the February 1, 2000 inspection indicated a recurrence of petroleum droplets and a slight sheen. No measurable volume of free product was observed in either of the sumps following installation through early 2000.

Observations were made during quarterly groundwater-sampling events conducted from December 1999 through Fall 2001. A written log was kept for each visit and observation. The protocol for well observation included opening the well cap and screening the headspace with a PID. Wells were sampled with disposable bailers and examined in the field for indications of floating or measurable product levels. During the period of January 9, 2001 and April 17, 2002 the wells were visited and monitored seven (7) times. PID readings during this period ranged from 0.0 ppm to 30 ppm. A slight petroleum odor and sheen was consistently noted at both wells during each visit. No significant volume of measurable product was observed at either well during this period of monitoring. Absorbent booms were inserted into the wells commencing on January 9, 2001 and changed within several months. Observations made during monthly inspections of the observation/recovery wells O/RW-1 and O/RW-2 indicated the continued presence of varying intensities of petroleum odors and visible evidence of contamination consisting of oil staining on the recovery booms. Bailers inserted into the product recovery wells continued to indicate the absence of measurable levels of free product in the well column. Observations of the saturated booms indicated that only a small volume of product was being recovered. No detectable difference was noted in the sheen or odors recorded at the wells following the use of absorbent materials. The use of absorbent booms was discontinued after October 8, 2001. Observation/monitoring logs are included as Appendix D of this document.

2.5.2 Monitoring Well Sampling Regiment and Temporary Well Installation

Four (4) on-site monitoring wells (installed by ESI in 1994) existed in January 1997: RD-2, RD-3, RD-4, and RD-6. Four (4) off-site monitoring wells were located off adjacent properties, including RD-7 and RD-9 (installed by ESI in 1994) on the adjoining property to the north, and RD-K1 and RD-K2 (installed prior to 1994) on the adjoining property to the south.

Laboratory data from the groundwater sampling events referenced below are presented in Tables 1, 2, and 3 in Appendix D.

January 1997 Sampling Event

On January 15, 1997 ESI sampled on-site monitoring wells RD-2, RD-3, RD-4 and RD-6, and off-site monitoring wells RD-7, RD-9, RD-K1 and RD-K2 to document the presence or absence of on-site groundwater contamination and to determine the potential for off-site migration of contaminated groundwater. One (1) petroleum contaminant, 1-methyl naphthalene, was detected at concentrations at or below the NYSDEC groundwater protection standard of 10 ppb in RD-2 (10 ppb) and in RD-6 (5 ppb). No other PAHs were detected in water samples from RD-2 or from RD-6. PAHs were not detected in any of the other four (4) monitoring wells. Detection limits were either at or below NYSDEC groundwater protection standards for all analyzed compounds.

Laboratory analysis of these wells in October 1994 had previously documented the presence of several petroleum contaminants at concentrations above NYSDEC groundwater protection standards. Naphthalene (120 ppb), 1-methyl naphthalene (380 ppb), and 2-methyl naphthalene (480 ppb) were detected in RD-2, and 2-methyl naphthalene (120 ppb) was detected in RD-6. These data indicate a decrease in contaminant concentrations in these wells from 1994 to January 1997. For both sampling events, petroleum contamination was only detected in the wells in the immediate vicinity of the fuel storage and distribution area (RD-2 and RD-6).

April 1997 Groundwater Sampling Event

On-site monitoring wells RD-2, RD-3, RD-4 and RD-6, and off-site monitoring wells RD-7 and RD-9 (located to the north of the Site) were sampled on April 17, 1997. As in the January 1997 sampling event, 1-methyl naphthalene was detected at low concentrations in RD-2 (9 ppb) and in RD-6 (13ppb). No other PAHs were detected in water samples from RD-2 or from RD-6. PAHs were not detected in any of the other four (4) monitoring wells. Detection limits were either at or below NYSDEC groundwater protection standards for all analyzed compounds. Laboratory data from the April 1997 sampling event are consistent with the previous January 1997 data and do not indicate significant changes in groundwater quality.

The presence of only low levels of detectable dissolved petroleum hydrocarbons in water samples collected from within the area of known contamination suggests that petroleum hydrocarbons in the soil are not fully dissolving in the groundwater. The continued absence of detectable concentrations of petroleum hydrocarbons in the off-site wells located off the adjoining property to the north suggest that contaminated groundwater has not migrated off-site.

Laboratory data are consistent with field observations which identified petroleum odors and sheens on the purgewater collected from RD-2 and RD-6. However, laboratory data appear to contradict field observations of contamination (odors) that were noted in the other on-site wells (no elevated levels of petroleum hydrocarbons were detected in these wells).

October 2000 Groundwater Sampling Event

Monitoring wells RD-2 and RD-6, located in the former fuel storage and distribution area, were destroyed during soil removal activities in 1999. On October 13, 2000, remaining on-site monitoring wells RD-3 and RD-4, and remaining off-site wells RD-7 and RD-9, were sampled. No VOCs or PAHs were detected in any samples submitted for analysis. Petroleum odors, however, were noted in monitoring wells RD-3 and RD-4. The observation/recovery wells located south of the former fuel storage and distribution area also exhibited field indications of petroleum contamination, including petroleum odors and visible sheens on the surface water.

Given the loss of monitoring wells RD-2 and RD-6 located in the former fuel storage and distribution area, a useful comparison of groundwater data from October 2000 with previously generated data could not be conducted. The presence of field indications of petroleum contamination, including a strong petroleum odor and visible sheen in water observed in the observation/recovery wells located south of the former fuel storage and distribution area, is an indication that some petroleum hydrocarbons were present at unknown concentrations in this portion of the property.

2001 Temporary Groundwater Monitoring Well Installation and Sampling Event

On February 12, 2001, a temporary groundwater monitoring well (RD-10) was installed in the vicinity of the former fuel storage and distribution area at a location approximately midway between former wells RD-2 and RD-6 (destroyed during soil removal activities). The boring for this well was completed using a hand-held, direct push sampling spoon. The well was constructed using 1-inch internal diameter PVC well casing and slotted well screening. RD-10 was completed as a stick-up well and was secured with a well cap.

March 2001/June 2001 Groundwater Sampling Event

Monitoring wells RD-3, RD-4, RD-7, RD-9, and RD-10 were sampled during March and June, 2001. Of the five (5) sampling locations, only RD-3 and RD-10 (both of which are on-site wells) were found to have elevated contaminant concentrations.

RD-3 exhibited one (1) elevated VOC concentration (naphthalene at 58 ppb, NYSDEC groundwater protection standard of 10 ppb) in the June 2001 sampling. RD-3 also exhibited VOC concentrations of 1,2,4-trimethylbenzene at the NYSDEC groundwater protection standard of 5 ppb. Two (2) other VOCs (1,3,5-trimethylbenzene, and total xylenes), both below NYSDEC groundwater protection standards, were also detected in RD-3. No other VOCs or PAHs were detected in RD-3 during the June 2001 or March 2001 groundwater sampling events.

RD-10 exhibited elevated concentrations of seven (7) VOCs during the March 2001 sampling event. 1,2,4-trimethylbenzene (10 ppb), 1,3,5-trimethylbenzene (37 ppb), Ethylbenzene (7 ppb), isopropylbenzene (17 ppb), n-butylbenzene (190 ppb), sec-butylbenzene (41 ppb), and tert-butylbenzene (49 ppb) were detected above the NYSDEC groundwater protection standard of 5 ppb for these compounds. By comparison, RD-10 exhibited one (1) VOC (toluene at 9 ppb, NYSDEC groundwater protection standard of 5 ppb) in the June 2001 sampling.

RD-10 exhibited concentrations of five (5) PAHs during the March 2001 sampling event. PAHs including acenaphthene (36 ppb), anthracene (17 ppb), fluorine (81 ppb), phenanthrene (79 ppb), and pyrene (22 ppb) were detected above the NYSDEC groundwater protection standard of 5 ppb for these compounds. By comparison, RD-10 exhibited concentrations of two (2) PAHs including anthracene (24 ppb) and phenanthrene (67 ppb) during the June 2001 sampling event. No other PAHs were detected in RD-10 during the March 2001 or June 2001 sampling events

These data indicated a decrease in the number of detected compounds with only slight fluctuations in concentrations, suggesting that local groundwater conditions have been subjected to seasonal and/or tidal influences.

No detectable concentrations of contaminants were identified during the March 2001 or June 2001 sampling events in water samples from monitoring wells RD-4 (an on-site well located to the south and down-gradient of the former fuel storage and distribution area), or in samples from RD-7or RD-9 (off-site wells located to the north and up-gradient of the fuel storage and distribution area).

October 2001 Groundwater Sampling Event

On October 19, 2001, the three (3) remaining on-site monitoring wells (RD-3, RD-4 and RD-10) the off-site monitoring well, located to the north of the subject property (RD-7) were sampled. Monitoring well RD-9, formerly located north of the subject property, was destroyed during debris removal activity on the former "Beacon Salvage" Property.

Laboratory data of groundwater samples obtained from RD-3, RD-4, and RD-7 do not document any measurable concentrations of VOC or PAH contamination above laboratory method detection limits. Detection limits were generally below NYSDEC action levels for VOCs but were above NYSDEC actions levels for some PAH compounds. Purge water from RD-3 and RD-4 exhibited a slight petroleum odor and sheen. No visual or olfactory evidence of contamination was observed during the screening of monitoring well RD-7.

Groundwater samples obtained from monitoring well RD-10 exhibited no detectable concentrations of PAHs and low levels of a three (3) VOCs (isopropylbenzene, n-butylbenzene and n-propylbenzene). The concentrations of all three (3) compounds were below their respective NYSDEC groundwater protection standards. Purge water from RD-10 (temporary monitoring well located in the former fuel storage distribution area) exhibited an obvious odor and sheen.

2.5.3 Comparison with Previous Groundwater Data

With the installation of temporary monitoring well RD-10 in the vicinity of the former fuel oil storage and distribution area, an accurate ongoing profile and comparison of groundwater conditions was obtainable using data from the October 2000, March 2001, June 2001, and October 2001 sampling events. Provided below is a comparative summary of laboratory data from these previous sampling events.

Of the four (4) remaining sampling locations (RD-3, RD-4, RD-7 and RD-10), only RD-3 and RD-10 (both of which are on-site wells) were ever found to have detectable concentrations of petroleum hydrocarbons. No detectable concentrations of petroleum hydrocarbons have been identified in samples collected from on-site well RD-4 or from off-site wells RD-7 and RD-9 (destroyed during scrap metal and debris removal activities). In June 2001, low concentrations of a few VOCs were found in RD-3; no VOCs or SVOCs were found in this well during either the March 2001 or October 2001 sampling rounds. The concentrations of VOCs found in RD-10 during the October 2001 sampling round ranged from non-detectable to 2 ppb; the previous June 2001 and March 2001 sampling rounds at RD-10 indicated higher concentrations of several VOCs. During the October 2001 sampling round no detected PAHs were identified; previous sampling events indicated two (2) exceedences in June 2001 and five (5) exceedences in March 2001. This data indicates a general decrease in the number of detected compounds with only minimal fluctuations, possibly due to seasonal and/or tidal influences on local groundwater conditions.

3.0 CONCLUSIONS AND RECOMMENDATIONS

This office has completed the services summarized in Section 2.0 for the specified portion of the "Beacon Waterfront" property located off Ferry Road in the City of Beacon, Dutchess County, New York. All work was completed in coordination with New York State Department of Environmental Conservation (NYSDEC) personnel and consistent with the Workplan for Site Remediation Activities (Revised May 1999) (Workplan) prepared by ESI, and approved by the NYSDEC (Voluntary Clean-up Index: D3-0004-99-01). Remedial activity outlined in the Workplan commenced during October 1999: petroleum contaminated soil was excavated, stockpiled, and disposed of at a licensed repository; confirmatory samples were collected and analyzed; test pits were extended; groundwater monitor wells were installed (prior to and post 1999), developed, and sampled; observation/recovery wells were installed and monitored; and, all activities were documented in the final Summary Report of Remedial Activities.

Based on the services provided and data generated, the following conclusions have been made:

1. Approximately 582 tons of petroleum-contaminated soil was removed from the Site in the area of the former fuel storage and distribution area during remedial activities conducted in 1999. Confirmatory endpoint sampling conducted in October 1999 and March 2003 indicate the continued presence of PAHs at concentrations below NYSDEC recommended cleanup objectives. Confirmatory endpoint samples collected in March 2003 indicate the presence of VOCs below NYSDEC recommended soil cleanup objectives.

2. Laboratory data document the absence of any detectable concentrations of VOCs or PAHs in off-site wells (RD-K1, RD-K2, RD-7 and the former RD-9) or in on-site well RD-4. Concentrations of VOCs and SVOCs have been detected in RD-10 (temporary well) and RD-3 throughout the sampling regiment at concentrations above NYSDEC groundwater protection standards. The groundwater data collected from 1994 to 2001 indicate a general decrease in the number of detected compounds, with only minimal fluctuations in concentrations. These data support the conclusion that remaining on-site hydrocarbons are predominately bound to soil particles and do not represent a threat to on-site or off-site groundwater quality.

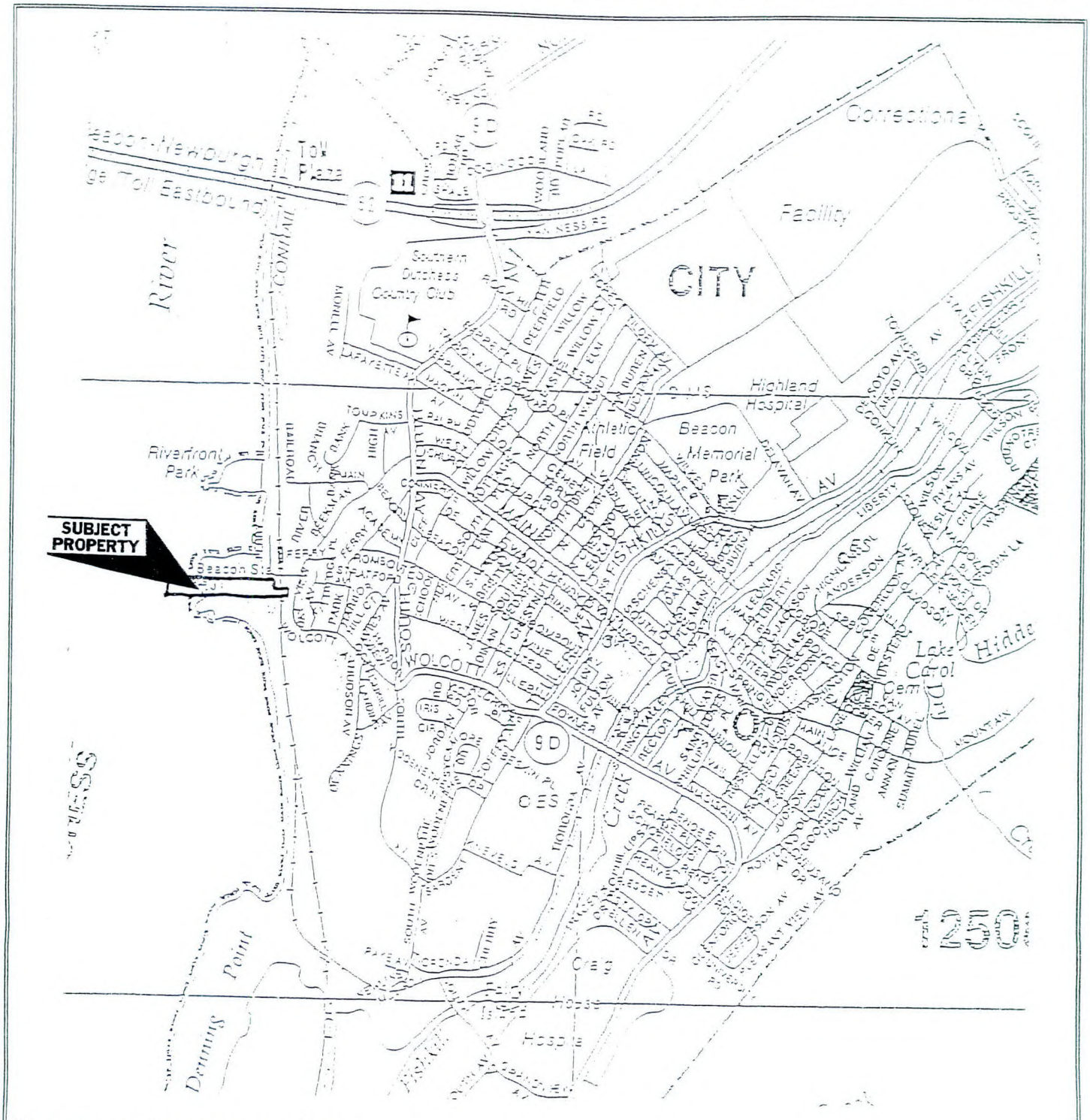
3. Petroleum odors and an occasional petroleum film continue to be present in the observation/recovery wells, suggesting that low levels of petroleum hydrocarbons remain on the Site in the former fuel storage and distribution area. The petroleum may be present in soil below the seasonal water table, generating odors but not releasing hydrocarbons into the column. This theory is supported by the absence of any measurable thickness of product throughout the observation period in the recovery wells located in the former fuel distribution area.

The following recommendations are made:

1. No further soil remediation is recommended based on the following:
   - Post excavation ("end point") sampling document levels of PAHs below NYSDEC guidance values.
   - Soils containing these low levels of PAHs are currently under two (2) feet of compacted soil cover, with additional soils proposed to be imported prior to site development. As a result, no direct contact with these soils will occur.
   - Remaining contaminants do not represent a source of significant groundwater contamination (see Paragraph 2, below).

2. No active groundwater remediation is recommended, based on continued groundwater quality data documenting limited contamination, but no off-site migration of hydrocarbons.

3. No groundwater monitoring is recommended, based on the absence of significant variation in groundwater quality over the past three (3) years. The absence of on-site groundwater usage



Source: Hagstrom Map Company, dated 1997

Site Location Map

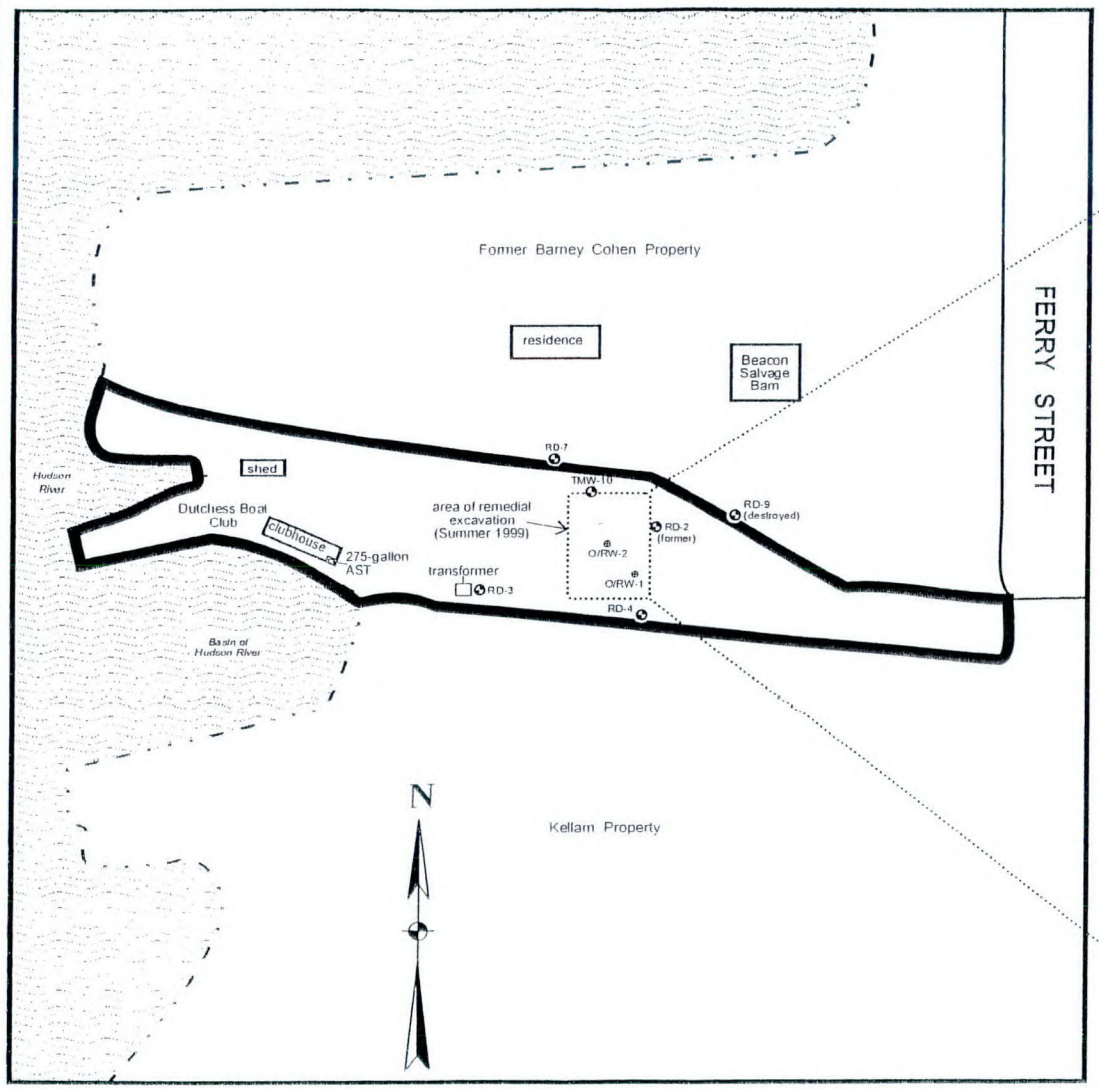
Beacon Waterfront Site
Former Garret Storm, Inc. MOSF Site
Ferry Road
City of Beacon
Dutchess County, New York

N

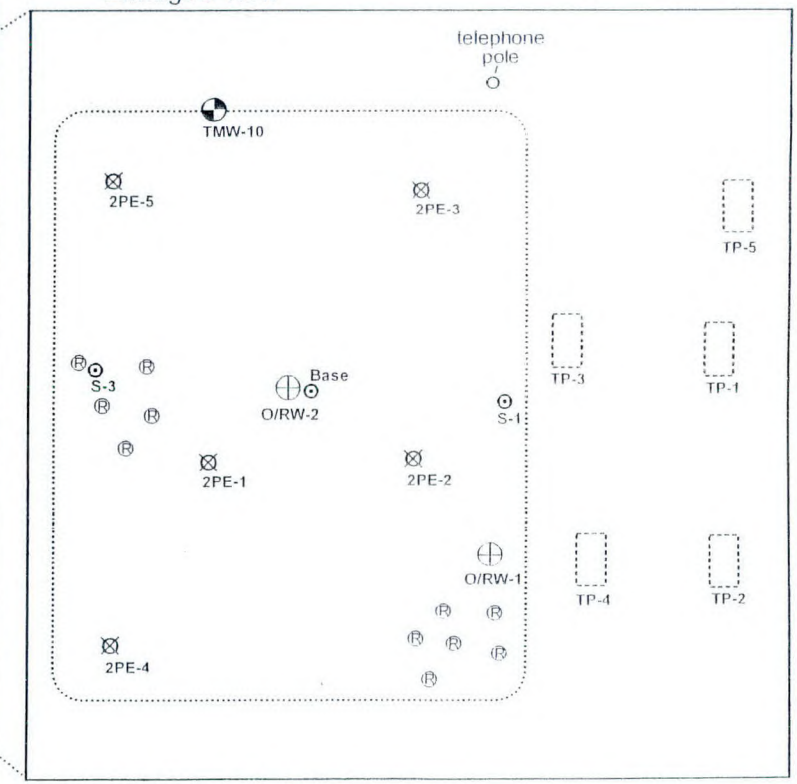
ESI File: SG96152.50R

Date: August 2003

Appendix A



Enlarged View



* SIZE E → OVERLAY LOCATION OF HISTORICAL STRUCTURES

Feature locations are approximate

Fieldwork Map - March 2003

Beacon Waterfront Site
Former Garret Storm, Inc. MOSF
Ferry Road
City of Beacon
Dutchess County, New York

Legend:

- subject property border
- observation/recovery well (O/RW-2)
- active or temporary monitoring well (RD-4 / TMW-10)
- soil sample (October 1999) (S-1/ Base)
- test pit (October 1999) (TP-1)
- post excavation soil sample (March 2003) (2PE-1)
- refusal locations (unable to dig at subsurface levels)

ESI File: SG96152.50R

June 2003 (Revised August 2003)

Not to Scale

Appendix A

APPENDIX B

Waste Disposal Manifests

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Ferry St Bergen NY

Transporter Name MANGIARDI

Generator Name MOSF

Contr Agent Company ECO SYS

Contr Agent Address _____

Contr Agent Contact ANNETTE

SCALE WEIGHT PRINTOUT

03:36 PM 04/26/00
00 ID. NO.
76820 lb GR
33500 lb TR KEYED
43320 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 21.66

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY Helen Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Kelly St Bronx NY

Transporter Name Manpiledi

Generator Name MOSF

Contr Agent Company Ecosystems

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

08:40 AM 04/26/00
00 ID. NO.
108640 lb GR
38500 lb TR KEYED
70140 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 35.07

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY Helen Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Fkly St Beacon NY

Transporter Name Mangiarelli

Generator Name MOSF

Contr Agent Company EEO Systems

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

08:37 AM 04/26/00
00 ID. NO.
111240 lb GR
37660 lb TR KEYED
73580 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 36.79

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY Helen Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Ferry St. Beacon N.Y.

Transporter Name Mangiardi

Generator Name MOSF

Contr Agent Company ECO SYSTEMS

Contr Agent Address _____

Contr Agent Contact Annett

SCALE WEIGHT PRINTOUT

09:03 AM 04/26/00
00 ID. NO.
93440 lb GR
38000 lb TR KEYED
55440 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 27.72

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY Lori Davies Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Ferry St Beacon NY

Transporter Name Marpiedi

Generator Name MOSF

Contr Agent Company FCO systems

Contr Agent Address _____

Contr Agent Contact Annette

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 34.67

Weight Date _____

Weight time _____

SCALE WEIGHT PRINTOUT

09:13 AM 04/26/00
00 ID. NO.
105140 lb GR
35800 lb TR KEYED
69340 lb NT

WEIGHT TICKET PROCESSED BY Helen Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Ferry St. Beacon NY

Transporter Name Mangiardi

Generator Name MOSF

Contr Agent Company ECO SYSTEMS

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

09:17 AM 04/26/00
00 ID. NO.
106260 lb GR
33500 lb TR KEYED
72760 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 36.38

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY Lori Daniels Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Ferry St Seaton NY

Transporter Name Manpiardi

Generator Name MOSF

Contr Agent Company ECO SYS

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

11:08 AM 04/26/00
00 ID. NO.
106740 lb GR
38500 lb TR KEYED
68240 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 34.12

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY _____ Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Feely St Berea NY

Transporter Name Marpiaedi YA209

Generator Name MOSF

Contr Agent Company ECO SYS.

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

11:07 AM 04/26/00
00 ID. NO.
106940 lb GR
37660 lb TR KEYED
69280 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 34.64

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY Helen Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Ferry St. Deacon NY

Transporter Name Mangiardi

Generator Name MOSF

Contr Agent Company ECO SYSTEM

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

11:51 AM 04/26/00
00 ID. NO.
105020 lb GR
38000 lb TR KEYED
67020 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 33.51

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY Lori Daniels Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Feag St Beacon NY

Transporter Name Mspiaredi

Generator Name MOSF

Contr Agent Company EQ sys

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

12:26 PM 04/26/00
00 ID. NO.
107640 lb GR
33500 lb TR KEYED
74140 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 37.07

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY _____ Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Fleet St Batavia NY

Transporter Name Mongiardi

Generator Name MOSF

Contr Agent Company FED SYS

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

12:24 PM 04/26/00
00 ID. NO.
112080 lb GR
35800 lb TR KEYED
76280 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 38.14

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY _____ Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Long Dock Rd. Beacon NY

Transporter Name Mangiardi

Generator Name MOSF

Contr Agent Company ECO SYSTEMS

Contr Agent Address _____

Contr Agent Contact Annette

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 36.15

Weight Date _____

Weight time _____

SCALE WEIGHT PRINTOUT

01:42 PM 04/26/00
00 ID. NO.
110300 lb GR
38500 lb TR KEYED
72300 lb NT

WEIGHT TICKET PROCESSED BY Lori Daniels Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Ferry R. Beacon N.Y.

Transporter Name Mangiardi

Generator Name MOSF

Contr Agent Company ECO SYSTEMS

Contr Agent Address _____

Contr Agent Contact Annette

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 3296

Weight Date _____

Weight time _____

SCALE WEIGHT PRINTOUT

01:25 PM 04/26/00
00 ID. NO.
103580 lb GR
37660 lb TR KEYED
65920 lb NT

WEIGHT TICKET PROCESSED BY Kari Daniels Date 4/26/00

THIS COPY GOES TO: _____

TT MATERIALS CORP.

Facility Weight Ticket

Customer ID # _____

Date of form generation _____

Job ## _____

Site Name MOSF

Site Address Ferry St. Beacon NY.

Transporter Name Mangiardi

Generator Name MOSF

Contr Agent Company ECO SYSTEMS

Contr Agent Address _____

Contr Agent Contact Annette

SCALE WEIGHT PRINTOUT

02:40 PM 04/26/00
00 ID. NO.
108100 lb GR
38000 lb TR KEYED
70100 lb NT

Scale ID# _____

Truck ID# _____

LB Gross _____

LB Tare _____

LB Net _____

Net tonnage 35.05

Weight Date _____

Weight time _____

WEIGHT TICKET PROCESSED BY Lori Daniels Date 4/26/00

THIS COPY GOES TO: _____

APPENDIX C

Laboratory Reports

MATRIX

ANALYTICAL DATA SUMMARY

Report Date: 01/22/97

Account: Ecosystems Strategies
Address: 60 Worrall Ave.
Poughkeepsie, NY 12603
914-452-1658

Project Manager: Brad Fisher
Project Name: SB96152.20 (1-16-97)
Project No.: SB96152.20

Sample Information:

Laboratory ID	Client/Field ID
70160222-001	RD-3
70160222-002	RD-4
70160222-003	RD-6
70160222-004	RD-7
70160222-005	RD-9
70160222-006	RD-K1
70160222-007	RD-K2
70160222-008	RD-2
70160222-009	QC Report-Water

Reviewed by

Christine A. Larkin
Laboratory Manager

Lab Certifications
EPA ID: No. MA059
Massachusetts: No. M-MA059
Maine: Reciprocity
Rhode Island: No. 87
South Carolina: No. 88011
Florida(DEP): QA Plan No. 900437G
Florida(HRS): No. E87290
Connecticut: No. PH0515
New York: ELAP No. 11116
New Hampshire: No. 2041

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2295
1(800) 362-8749

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 01-15-97
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-001	Date Sampled:	01/15/97 11:35
Client ID:	RD-3	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date:	01/17/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	01/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	01/18/97
Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	01/18/97
Chrysene	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Fluorene	ND	ug/l	5	8270A	jp	01/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	01/18/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	01/18/97

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2295
1-(800)-362-8749

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 01-16-97
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-001	Date Sampled:	01/15/97 11:35
Client ID:	RD-3	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	01/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	47	Percent			jp	01/18/97
Nitrobenzene-D5	47	Percent			jp	01/18/97
p-Terphenyl-D14	89	Percent			jp	01/18/97

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2295
1-(800) 362-8749

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.26 (1-16-97
Address:	66 Worrall Ave	Project Number:	SB96152.26
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-002	Date Sampled:	01/15/97 11:50
Client ID:	RD-4	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date:	01/17/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	01/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	01/18/97
Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	01/18/97
Chrysene	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Fluorene	ND	ug/l	5	8270A	jp	01/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	01/18/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	01/18/97

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2296
(800) 362-8746

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 (1-10)
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-002	Date Sampled:	01/15/97 11:50
Client ID:	RD-4	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	01/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	47	Percent			jp	01/18/97
Nitrobenzene-D5	27	Percent			jp	01/18/97
p-Terphenyl-D14	79	Percent			jp	01/18/97
One of the surrogates is outside the acceptance range, possibly due to matrix interference						

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2295
1-(800) 362-8740

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 (1-16-97
Address:	60 Worrall Ave.	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-003	Date Sampled:	01/15/97 13:30
Client ID:	RD-6	Date Received:	01/16/97 . 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	sh	01/21/97
Chlorobenzene	ND	ug/l	1	8020	sh	01/21/97
1,2-Dichlorobenzene	ND	ug/l	1	8020	sh	01/21/97
1,3-Dichlorobenzene	ND	ug/l	1	8020	sh	01/21/97
1,4-Dichlorobenzene	ND	ug/l	1	8020	sh	01/21/97
Ethylbenzene	ND	ug/l	1	8020	sh	01/21/97
MTBE	ND	ug/l	5	8020	sh	01/21/97
Toluene	ND	ug/l	1	8020	sh	01/21/97
Xylene	ND	ug/l	1	8020	sh	01/21/97
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	123	Percent			sh	01/21/97
PAH's						
Extraction Date:	01/17/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	01/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	01/18/97
Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	01/18/97
Chrysene	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	01/18/97

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F I N A L R E P O R T

Client Information

Account:	Ecosystem Strategies	Project Name:	SB96152.20 [illegible]
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-003	Date Sampled:	01/15/97 13:30
Client ID:	RD-6	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Fluorene	ND	ug/l	5	8270A	jp	01/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	01/18/97
1-Methyl Naphthalene	10	ug/l	5	8270A	jp	01/18/97
Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	01/18/97
Pyrene	ND	ug/l	5	8270A	jp	01/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	57	Percent			jp	01/18/97
Nitrobenzene-D5	53	Percent			jp	01/18/97
p-Terphenyl-D14	71	Percent			jp	01/18/97

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FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 [illegible]
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	701602220-004	Date Sampled:	01/15/97 11:45
Client ID:	RD-7	Date Received:	01/16/97 [illegible]:0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date	01/17/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	01/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	01/18/97
Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	01/18/97
Chrysene	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Fluorene	ND	ug/l	5	8270A	jp	01/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	01/18/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	01/18/97

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F I N A L R E P O R T

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 [illegible]
Address:	66 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-004	Date Sampled:	01/15/97 11:45
Client ID:	RD 7	Date Received:	01/16/97 [illegible]:0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	01/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	57	Percent			jp	01/18/97
Nitrobenzene-D5	54	Percent			jp	01/18/97
p-Terphenyl-D14	67	Percent			jp	01/18/97

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FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 (1-16-97)
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jac Kantar

Sample Information

Lab ID:	70160222-005	Date Sampled:	01/15/97 12:00
Client ID:	RD 9	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date	01/17/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	01/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	01/18/97
Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	01/18/97
Chrysene	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Fluorene	ND	ug/l	5	8270A	jp	01/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	01/18/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	01/18/97

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FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB06152.20 1-16-07
Address:	60 Worrall Ave	Project Number:	SB06152.20
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-005	Date Sampled:	01/15/07 12:00
Client ID:	RD-9	Date Received:	01/16/07 9:0
Matrix:	Water	Date Reported:	01/22/07

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	01/18/07
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	73	Percent			jp	01/18/07
Nitrobenzene-D5	71	Percent			jp	01/18/97
p-Terphenyl-D14	88	Percent			jp	01/18/97

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FINAL REPORT

Client Information

Account:	Ecosystem Strategies	Project Name:	SB96152.20 1-16-97
Address:	60 Worrall Ave.	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Laplan

Sample Information

Lab ID:	70160222-006	Date Sampled:	01/15/97 13:15
Client ID:	RD-R1	Date Received:	01/16/97 [illegible]0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date	01/17/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	01/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	01/18/97
Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	01/18/97
Chrysene	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Fluorene	ND	ug/l	5	8270A	jp	01/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	01/18/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	01/18/97

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F I N A L R E P O R T

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 [illegible]
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-006	Date Sampled:	01/15/97 13:15
Client ID:	RD-R1	Date Received:	01/16/97 : 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	01/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	62	Percent			jp	01/18/97
Nitrobenzene-D5	59	Percent			jp	01/18/97
p-Terphenyl-D14	74	Percent			jp	01/18/97

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F I N A L R E P O R T

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 (1-16-97
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-007	Date Sampled:	01/15/97 13:25
Client ID:	RD-R2	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date:	01/17/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	01/19/97
Acenaphthylene	ND	ug/l	5	8270A	jp	01/19/97
Anthracene	ND	ug/l	5	8270A	jp	01/19/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	01/19/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	01/19/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	01/19/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	01/19/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	01/19/97
Chrysene	ND	ug/l	5	8270A	jp	01/19/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	01/19/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	01/19/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	01/19/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	01/19/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	01/19/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	01/19/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	01/19/97
Fluoranthene	ND	ug/l	5	8270A	jp	01/19/97
Fluorene	ND	ug/l	5	8270A	jp	01/19/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	01/19/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/19/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	01/19/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/19/97
Naphthalene	ND	ug/l	5	8270A	jp	01/19/97
Phenanthrene	ND	ug/l	5	8270A	jp	01/19/97

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FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 (1-Jan-97
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kapito

Sample Information

Lab ID:	70160222-007	Date Sampled:	01/15/97 13:25
Client ID:	RD-K2	Date Received:	01/16/97 10
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	01/19/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	55	Percent			jp	01/19/97
Nitrobenzene-D5	55	Percent			jp	01/19/97
p-Terphenyl-D14	82	Percent			jp	01/19/97

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FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 [illegible]
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	70160222-008	Date Sampled:	01/15/97 13:40
Client ID:	RD 2	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	sh	01/21/97
Chlorobenzene	ND	ug/l	1	8020	sh	01/21/97
1,2-Dichlorobenzene	ND	ug/l	1	8020	sh	01/21/97
1,3-Dichlorobenzene	ND	ug/l	1	8020	sh	01/21/97
1,4-Dichlorobenzene	ND	ug/l	1	8020	sh	01/21/97
Ethylbenzene	ND	ug/l	1	8020	sh	01/21/97
MTBE	ND	ug/l	5	8020	sh	01/21/97
Toluene	ND	ug/l	1	8020	sh	01/21/97
Xylene	ND	ug/l	1	8020	sh	01/21/97
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	112	Percent			sh	01/21/97
PAH's						
Extraction Date	01/17/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	01/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	01/18/97
Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	01/18/97
Chrysene	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	01/18/97

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FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 (3-10-97)
Address:	60 Worrall Ave.	Project Number:	SB96152.20
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Ja. Kapiai

Sample Information

Lab ID:	70160222-008	Date Sampled:	01/15/97 13:40
Client ID:	RD-2	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	01/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	01/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	01/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	01/18/97
Fluorene	ND	ug/l	5	8270A	jp	01/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	01/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	01/18/97
1-Methyl Naphthalene	5	ug/l	5	8270A	jp	01/18/97
Naphthalene	ND	ug/l	5	8270A	jp	01/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	01/18/97
Pyrene	ND	ug/l	5	8270A	jp	01/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	37	Percent			jp	01/18/97
Nitrobenzene-D5	35	Percent			jp	01/18/97
p-Terphenyl-D14	62	Percent			jp	01/18/97

One of the surrogates is outside the acceptance range, possibly due to matrix interference.

Matrix Analytical Inc.
106 South Street
Hopkinton, MA 01748-2205
1-(800) 362-8740

F I N A L R E P O R T

Client Information

Account:	Ecosystems Strategies	Project Name:	SB96152.20 [illegible]
Address:	60 Worrall Ave	Project Number:	SB96152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sample Name:	

Sample Information

Lab ID:	701602224-009	Date Sampled:	/ /
Client ID:	QC Report-Water	Date Received:	01/16/97 : 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
METHOD BLANKS						
Method Blank - Semi Volatile	ND	ug/l		625/8270A		
Method Blank - Volatile	ND	ug/l		8020/602		
MATRIX SPIKE STUDIES - VOLATILES						
Sample ID:	0239-001					
Benzene	82	Percent				
Chlorobenzene	89	Percent				
Toluene	90	Percent				
MATRIX SPIKE STUDIES BASE/NEUTRALS						
Sample ID:	0207-001					
Acenaphthene	68	Percent				
Pyrene	74	Percent				

METHOD SUMMARIES

Acid/Base Neutral analysis is performed using H/P 5970 GC/MS systems with autosampler. Analysis is performed with J&W megabore column. Tuning is based on DFTPP criteria. Procedural guidelines described in SW846 are used for all analysis. Data reduction is accomplished using H/P RTE 1000 computer systems.

Volatile organic analysis is performed using H/P 5995 or 5970 GC/MS. Tekmar purge and trap, and ALS autosampler. Chromatography incorporates packed and megabore columns. Data reduction is performed on RTE 1000 and ChemStation systems. Tuning is based on BFB standards. Procedural guidelines follow EPA or SW846 for all analyses.

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1-(800) 362-8746

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SB960152.20 1-10-97
Address:	60 Worrall Ave	Project Number:	SB960152.20
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	

Sample Information

Lab ID:	701602220-009	Date Sampled:	/ /
Client ID:	QC Report Water	Date Received:	01/16/97 0
Matrix:	Water	Date Reported:	01/22/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste Physical Chemical Methods. EPA SW 846 November 1986
2. Methods For Chemical Analysis of Water and Wastes EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF. 18th Edition 1992
4. EPA Methods For The Determination of Organic Compounds in Drinking Water

Information	Client Information
ame: SB96152.20	Send Reports to: BRAD FISHER
o.: SB96152.20	Company: Ecosystems Strategies
ocation: —	Address: 60 Overall Ave.
anager: BRAD FISHER	Poughk., NY 12603
s): BRAD FISHER	Phone: (914) 452-1658
JAY KAPLAN	Fax: (914) 485-7083
Lab Quote #:	Account # (Lab Use Only)
und: ~~Standard=10 business~~ days	Final Report: ☒ Mail ☐ Overnight ☒ Fax
☒ Other (specify):	☐ EDT Diskette (If checked, call for pricing)
s than 10 days must be pre-approved!	Disk format:

Form No. | Page 1

FILTRATION (0.45 um) & PRESERVATION INFORMATION

FILTRATION	PRESERVATION
☐ DONE	☐ DONE
☐ NOT NEEDED	☐ NOT NEEDED
☐ LAB TO DO*	☐ LAB TO DO*

*Please specify which samples need to be filtered and/or preserved by the lab

IF SPECIAL OR NON-ROUTINE DETECTION LIMITS ARE REQUIRED, PLEASE CALL THE LAB

Lab ID (Use Only)	Client/Field Sample ID	Collection Date	Collection Time	Sample Source / Matrix	Analyses (write test methods above & "x's" below for each sample to be tested)										Sample Remarks (below)	TOTAL # OF BOTTLES
	RD-5	1/15/97	11:35	WATER	X											1
	RD-4	1/15/97	11:50	WATER	X											1
	RD 6	1/15/97	1:31	WATER	X	X									high conc. & low conc. analytes likely	2
	RD-7	1/15/97	11:45	WATER	X											1
	RD-9	1/15/97	12:00	WATER	X											1
	RD K1	1/15/97	1:15	WATER	X											1
	RD-K2	1/15/97	1:25	WATER	X											1
	RD-2	1/15/97	1:40	WATER	X	X									high conc. & low conc. analytes likely	3

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Phone: (800) 362-8749
Fax: (508) 435-2497

NOTES:

RUSH on ALL SAMPLES

AIN-OF-CUSTODY RECORD

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	1/15/97 4:00	[signature]	1-16-97 [illegible]

Condition of Samples Upon Arrival
☐ Okay ☐ Problem(s)

Distribution of Copies
White-Lab Yellow-Report Pink-Client

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[illegible] South Street
Hopkinton, MA [illegible]
1-(800) 362-8[illegible]

FINAL REPORT

Client Information

Account:	Ecosystem Strategie	Project Name:	SG96152.21 [illegible]
Address:	60 Normal [illegible]	Project Number:	SG96152.21
	Poughkeepsie, [illegible]	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	710816223-001	Date Sampled:	04/17/97 12:15
Client ID:	RD-3	Date Received:	04/18/97 0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date	04/18/97				rv	
Acenaphthene	ND	ug/l	5	8270A	jp	04/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	04/18/97
Anthracene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	04/18/97
Chrysene	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	04/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Fluorene	ND	ug/l	5	8270A	jp	04/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	04/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	04/18/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	04/18/97

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106 South Street
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1(800) 3[illegible]

F I N A L R E P O R T

Client Information

Address	60 Worrall Ave	Project Name	SG9615221 [illegible]
	Poughkeepsie, [illegible]	Project Number	SG9615221
		Project Manager	Brad Fisher
		Sampler Name	Brad Fisher/Jay Kardan

Sample Information

Lab ID	710816234001	Date Sampled	04/17/97 12:15
Client ID	PD-3	Date Received	04/18/97 0
Matrix	Water	Date Reported	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAHs						
Pyrene	ND	ug/l	5	8270A	jp	04/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	56	Percent			jp	04/18/97
Nitrobenzene-D5	56	Percent			jp	04/18/97
p-Terphenyl-D14	94	Percent			jp	04/18/97

Matrix Analytical, Inc.
106 South Street
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FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name	SG96152.21 [illegible]
Address:	60 Worrall Ave	Project Number	SG96152.21
	Poughkeepsie, NY 12603	Project Manager	Brad Fisher
		Sampler Name	Brad Fisher/Jay Kaplan

Sample Information

Lab ID	710816123-002	Date Sampled	04/17/97 12:17
Client ID	RJ-4	Date Received	04/18/97 : 0
Matrix	Water	Date Reported	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date	04/18/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	04/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	04/18/97
Anthracene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	04/18/97
Chrysene	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	04/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Fluorene	ND	ug/l	5	8270A	jp	04/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	04/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	04/18/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	04/18/97

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[illegible]

F I N A L R E P O R T

Client Information

Account:	Ecosystem Strategies	Project Name:	SG96152.21 [illegible]
Address:	60 Worrall Ave	Project Number:	SG96152.21
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Dave Kaplan

Sample Information

Lab ID:	710816023-002	Date Sampled:	04/17/97 12:17
Client ID:	BD-4	Date Received:	04/18/97 [illegible]
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	04/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	53	Percent			jp	04/18/97
Nitrobenzene-D5	60	Percent			jp	04/18/97
p-Terphenyl-D14	92	Percent			jp	04/18/97

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Hopkinton, MA [illegible]
[illegible]

FINAL REPORT

Client Information

Account:	Ecosystem Strategies	Project Name:	SG9b152.2 [illegible]
Address:	90 Worcester [illegible]	Project Number:	SG9b152.2
	Boughteonville, NY 12066	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Ja[illegible] Kandal

Sample Information

Lab ID:	710816[illegible]23-003	Date Sampled:	04/17/97 12:20
Client ID:	PD-9	Date Received:	04/18/97 [illegible]0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date	04/18/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	04/18/97
Acenaphthylene	ND	ug/l	5	8270A	jp	04/18/97
Anthracene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	04/18/97
Chrysene	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	04/18/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	04/18/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	04/18/97
Fluoranthene	ND	ug/l	5	8270A	jp	04/18/97
Fluorene	ND	ug/l	5	8270A	jp	04/18/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	04/18/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	04/18/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
Naphthalene	ND	ug/l	5	8270A	jp	04/18/97
Phenanthrene	ND	ug/l	5	8270A	jp	04/18/97

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Hopkinton, MA [illegible]
[illegible]

F I N A L R E P O R T

Client Information

[illegible]	[illegible]	Project Name	SG9b152.21 [illegible]
Address	[illegible]	Project Number	SG9b152.21
	[illegible]	Project Manager	Brad Fisher
		Sampler Name	Brad Fisher/[illegible]

Sample Information

Lab ID	[illegible]	Date Sampled	04/17/97 12:20
Client ID	PI-9	Date Received	04/18/97 [illegible]
Matrix	Water	Date Reported	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	04/18/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	76	Percent			jp	04/18/97
Nitrobenzene-D5	80	Percent			jp	04/18/97
p-Terphenyl-D14	100	Percent			jp	04/18/97

Matrix Analytical, Inc.
106 South Street
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1-(800) 362-8736

F I N A L R E P O R T

Client Information

Account:	Ecosystems Strategies	Project Name:	SG96152.21 [illegible]
Address:	60 Worrall Ave	Project Number:	SG96152.21
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Eagan

Sample Information

Lab ID:	71081623-004	Date Sampled:	04/17/97 12:25
Client ID:	RD-3	Date Received:	04/18/97 0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date	04/18/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	04/21/97
Acenaphthylene	ND	ug/l	5	8270A	jp	04/21/97
Anthracene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	04/21/97
Chrysene	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	04/21/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Fluorene	ND	ug/l	5	8270A	jp	04/21/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	04/21/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/21/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	04/21/97
1-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/21/97
Naphthalene	ND	ug/l	5	8270A	jp	04/21/97
Phenanthrene	ND	ug/l	5	8270A	jp	04/21/97

Matrix Analytical, Inc.
10[illegible] South Street
Hopkinton, MA 01748-2296
1-(800)-362-8796

F I N A L R E P O R T

Client Information

Account:	Ecosystems Strategies	Project Name:	SG96152.21 [illegible]
Address:	60 Worrall Ave	Project Number:	SG96152.21
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jo[illegible]

Sample Information

Lab ID:	7108623-004	Date Sampled:	04/17/97 12:25
Client ID:	PD-7	Date Received:	04/18/97 [illegible]0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	04/21/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	87	Percent			jp	04/21/97
Nitrobenzene-D5	91	Percent			jp	04/21/97
p-Terphenyl-D14	106	Percent			jp	04/21/97

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2296
(800) 362-8749

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SG96152.21 [illegible]
Address:	60 Worrall Ave	Project Number:	SG96152.21
	Poughkeepsie, NY 12603	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	71081623-005	Date Sampled:	04/17/97 12:30
Client ID:	RD-6	Date Received:	04/18/97 0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date	04/18/97				rw	
Acenaphthene	3D	ug/l	5	8270A	jp	04/21/97
Acenaphthylene	ND	ug/l	5	8270A	jp	04/21/97
Anthracene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	04/21/97
Chrysene	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	04/21/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Fluorene	ND	ug/l	5	8270A	jp	04/21/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	04/21/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/21/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	04/21/97
1-Methyl Naphthalene	13	ug/l	5	8270A	jp	04/21/97
Naphthalene	ND	ug/l	5	8270A	jp	04/21/97
Phenanthrene	ND	ug/l	5	8270A	jp	04/21/97

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2209
1-(800) 362-8749

F I N A L R E P O R T

Client Information

Account:	Ecosystems Strategies	Project Name:	SG96152.21 [illegible]
Address:	60 Woodlands Ave	Project Number:	SG96152.21
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Ja[illegible]

Sample Information

Lab ID:	710816023-005	Date Sampled:	04/17/97 12:30
Client ID:	RD-6	Date Received:	04/18/97 : 0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	04/21/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	67	Percent			jp	04/21/97
Nitrobenzene-D5	77	Percent			jp	04/21/97
p-Terphenyl-D14	77	Percent			jp	04/21/97

Matrix Analytical Inc.
106 South Street
Hopkinton, MA 01748-2207
(800) 362-8744

FINAL REPORT

Client Information

Account:	Ecosystem Strategies	Project Name:	SG96152.21
Address:	60 Woman's Way	Project Number:	SG96152.21
	Poughkeepsie, NY 12601	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher Jan [illegible]

Sample Information

Lab ID:	710816238-006	Date Sampled:	04/17/97 12:32
Client ID:	RD-2	Date Received:	04/18/97 0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Extraction Date:	04/18/97				rw	
Acenaphthene	ND	ug/l	5	8270A	jp	04/21/97
Acenaphthylene	ND	ug/l	5	8270A	jp	04/21/97
Anthracene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (a) Anthracene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (a) Pyrene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (b) Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (k) Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Benzo (g,h,i) Perylene	ND	ug/l	5	8270A	jp	04/21/97
Chrysene	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,h) Acridine	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,j) Acridine	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,h) Anthracene	ND	ug/l	5	8270A	jp	04/21/97
7H-Dibenzo (c,g) Carbazole	ND	ug/l	5	8270A	jp	04/21/97
Dibenzo (a,e) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Dibenzo (a,i) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Dibenzo (a,h) Pyrene	ND	ug/l	10	8270A	jp	04/21/97
Fluoranthene	ND	ug/l	5	8270A	jp	04/21/97
Fluorene	ND	ug/l	5	8270A	jp	04/21/97
Indeno (1,2,3-cd) Pyrene	ND	ug/l	5	8270A	jp	04/21/97
2-Methyl Naphthalene	ND	ug/l	5	8270A	jp	04/21/97
3-Methylcholanthrene	ND	ug/l	5	8270A	jp	04/21/97
1-Methyl Naphthalene	9	ug/l	5	8270A	jp	04/21/97
Naphthalene	ND	ug/l	5	8270A	jp	04/21/97
Phenanthrene	ND	ug/l	5	8270A	jp	04/21/97

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2248
1(800) 362-8710

FINAL REPORT

Client Information

Account:	Environmental Strategies	Project Name:	SG96152.23 [illegible]
Address:	60 Worcester Road	Project Number:	SG96152.23
	Framingham, MA 01701	Project Manager:	Brad Fisher
		Sampler Name:	Brad Fisher/Jay Kaplan

Sample Information

Lab ID:	9708162B-006	Date Sampled:	04/17/97 12:32
Client ID:	RD-2	Date Received:	04/18/97 [illegible]:0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
PAH's						
Pyrene	ND	ug/l	5	8270A	jp	04/21/97
SURROGATE STUDIES - BASE NEUTRALS						
2-Fluorobiphenyl	78	Percent			jp	04/21/97
Nitrobenzene-D5	88	Percent			jp	04/21/97
p-Terphenyl-D14	85	Percent			jp	04/21/97

Matrix Analytical, Inc.
[illegible] South Street
Hopkinton, MA [illegible]
(800) 362-[illegible]

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	SG96152.21 [illegible]
Address:	60 Woman Ave	Project Number:	SG96152.21
	Poughkeepsie, [illegible]	Project Manager:	Brad Fisher
		Sampler Name:	

Sample Information

Lab ID:	7108162 3-007	Date Sampled:	/ /
Client ID:	QC Report Water	Date Received:	04/18/97 [illegible]:0
Matrix:	Water	Date Reported:	04/23/97

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
METHOD BLANKS						
Method Blank - Semi Volatile	ND	ug/l		625/8270A		
MATRIX SPIKE STUDIES BASE/NEUTRALS						
Sample ID	1623-001					
Acenaphthene	67	Percent				
Pyrene	81	Percent				

METHOD SUMMARIES

Acid/Base Neutral analysis is performed using H/P 5970 GC/MS systems with autosampler. Analysis is performed with J&W megabore column. Tuning is based on DFTPP criteria. Procedural guidelines described in SW846 are used for all analysis. Data reduction is accomplished using H/P RTE 1000 computer systems.

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. November 1986
2. Methods For Chemical Analysis of Water and Wastes EPA 600/4-79-200. Revised March 1983
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF., 18th Edition 1992
4. EPA Methods For The Determination of Organic Compounds in Drinking Water

Project Information	Client Information
Name: S696452.21	Send Reports to: BRAD FISHER
No.: S696452.21	Company: ECOSYSTEMS STRATEGIES
Location: —	Address: 60 WOMMILL RD
Manager: BRAD FISHER	POUGHKEEPSIE NY 12603
Sampler(s): BRAD FISHER	Phone: 914 452-1656
T. KAPLAN	Fax: 914 486-2663
Lab Quote #:	Account # (Lab Use Only)
Turnaround: ☐ Standard 10 business days ☑ Other (specify): 5 day	Final Report: ☑ E-Mail ☐ Overnight ☐ Fax ☐ EDT Diskette (If checked, call for pricing) Disk format:
Less than 10 days must be pre-approved!	

Form No. | Page

FILTRATION (0.45 um) & PRESERVATION INFORMATION

FILTRATION	PRESERVATION*
☐ DONE	☐ DONE
☐ NOT NEEDED	☐ NOT NEEDED
☐ LAB TO DO*	☐ LAB TO DO*

*Please specify which samples need to be filtered and/or preserved by the lab.

IF SPECIAL OR NON-ROUTINE DETECTION LIMITS ARE REQUIRED, PLEASE CALL THE LAB.

Lab ID (Lab Use Only)	Client/Field Sample ID	Collection Date	Collection Time	Sample Source / Matrix	Analyses (write test methods above & "x"s" below for each sample to be tested)	Sample Remarks (below)	TOTAL # OF BOTTLES
	RD-3	4/12/97	12:15	WATER	X		2
	RD-4	4/12/97	12:17	WATER	X		2
	RD-9	4/12/97	12:20	WATER	X		2
	RD-7	4/12/97	12:25	WATER	X		2
	RD-6	4/12/97	12:30	WATER	X	pass thru 3.5u of analytes	2
	RD-2	4/12/97	12:32	WATER	X	pass thru 1.5u of analytes	2

Analyses: 8270 (PAHs)

NOTES:

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
Phone: (800) 362-8749
Fax: (508) 435-2497

CHAIN-OF-CUSTODY RECORD

Relinquished By:	Date/Time	Received By:	Date/Time
	4/13/97 2:00		

Condition of Samples Upon Arrival: ☐ Okay ☐ Problem(s)

Distribution of Copies

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 3/13/2001
Re: Client Project ID: SG96152
York Project No.: 01030139

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 98 EPA I.D. No. CT00106

nelac nelap

Report Date: 3/13/2001
Client Project ID: SG96152
York Project No: 01030139

Ecosystems Strategies, Inc
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 03/08/01. The project was identifed as your project "SG96152 "

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			RD-7		RD-3	
York Sample ID			01030139-01		01030139-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS water	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methyl-tert-butyl ether			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	2	Not detected	2
p- & m- Xylenes			Not detected	2	Not detected	2
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
Total Xylenes			Not detected	2	Not detected	2

Client Sample ID			RD-7		RD-3	
York Sample ID			01030139-01		01030139-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	10	Not detected	10
Anthracene			Not detected	10	Not detected	10
Benzo[a]anthracene			Not detected	10	Not detected	10
Benzo[a]pyrene			Not detected	10	Not detected	10
Benzo[b]fluoranthene			Not detected	10	Not detected	10
Benzo[g,h,i]perylene			Not detected	10	Not detected	10
Benzo[k]fluoranthene			Not detected	10	Not detected	10
Chyrsene			Not detected	10	Not detected	10
Dibenz[a,h]anthracene			Not detected	10	Not detected	10
Fluoranthene			Not detected	10	Not detected	10
Fluorene			Not detected	10	Not detected	10
Indeno[1,2,3-cd]pyrene			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
Phenanthrene			Not detected	10	Not detected	10
Pyrene			Not detected	10	Not detected	10

Client Sample ID			RD-4		RD-9	
York Sample ID			01030139-03		01030139-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS water	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methyl-tert-butyl ether			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	2	Not detected	2
p- & m- Xylenes			Not detected	2	Not detected	2
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
Total Xylenes			Not detected	2	Not detected	2
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	10	Not detected	10
Anthracene			Not detected	10	Not detected	10
Benzo[a]anthracene			Not detected	10	Not detected	10
Benzo[a]pyrene			Not detected	10	Not detected	10
Benzo[b]fluoranthene			Not detected	10	Not detected	10
Benzo[g,h,i]perylene			Not detected	10	Not detected	10
Benzo[k]fluoranthene			Not detected	10	Not detected	10
Chyrsene			Not detected	10	Not detected	10
Dibenz[a,h]anthracene			Not detected	10	Not detected	10
Fluoranthene			Not detected	10	Not detected	10

VOPV

Client Sample ID			RD-4		RD-9	
York Sample ID			01030139-03		01030139-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluorene			Not detected	10	Not detected	10
Indeno[1,2,3-cd]pyrene			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
Phenanthrene			Not detected	10	Not detected	10
Pyrene			Not detected	10	Not detected	10

Client Sample ID			RD-10	
York Sample ID			01030139-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS water	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			10	1
1,3,5-Trimethylbenzene			37	1
Benzene			Not detected	1
Ethylbenzene			7	1
Isopropylbenzene			17	1
Methyl-tert-butyl ether			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			190	1
n-Propylbenzene			1	1
o-Xylene			Not detected	2
p- & m- Xylenes			Not detected	2
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			41	1
tert-Butylbenzene			49	1
Toluene			Not detected	1
Total Xylenes			Not detected	2
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/L	---	---
Acenaphthene			36	10
Anthracene			17	10
Benzo[a]anthracene			Not detected	10
Benzo[a]pyrene			Not detected	10
Benzo[b]fluoranthene			Not detected	10
Benzo[g,h,i]perylene			Not detected	10
Benzo[k]fluoranthene			Not detected	10
Chyrsene			Not detected	10
Dibenz[a,h]anthracene			Not detected	10
Fluoranthene			Not detected	10
Fluorene			81	10
Indeno[1,2,3-cd]pyrene			Not detected	10
Naphthalene			Not detected	10
Phenanthrene			79	10
Pyrene			22	10

Units Key: For Waters/Liquids: mg/L = ppm, ug/L = ppb For Soils/Solids: mg/kg = ppm, ug/kg = ppb

Report Date: 3/13/2001
Client Project ID: SG96152
York Project No.: 01030139

Notes for York Project No. 01030139

1 The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2 Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3 York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4 This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5 All samples were received in proper condition for analysis with proper documentation.
6 All analyses conducted met method or Laboratory SOP requirements.
7 It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 3/13/2001
Robert Q. Bradley
Managing Director

YORK

YORK
YTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

ompany Name	Report To:	Invoice To:	Project ID/No.
YSTEMS STRATEGIES INC	JONATHAN A KAPLAN	PAM	SG96152

Samples Collected By (Signature)

JONATHAN A KAPLAN
Name (Printed)

ple No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	RD-7	3/7/01	X				8021 STARS / 8270 PAH	
	RD-3							
	RD-4							
	RD-9							
	RD-10							

of-Custody Record

es Relinquished from Lab by — Date/Time

tles Received in Field by — Date/Time

Sample Relinquished by — 3/8/01 12:30 — Date/Time

Sample Relinquished by — Date/Time

Sample Received by — 3/8/01 1230 — Date/Time

Sample Received in LAB by — 3/8/01 1230 — Date/Time

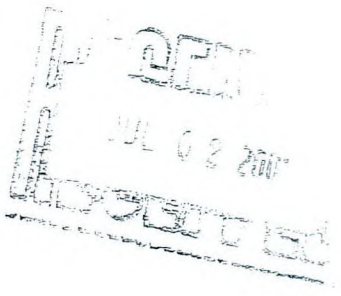
ents/Special Instructions Cooler / Sample Temp. : 6.0 °C

Turn-Around Time

___Standard ___RUSH(define)_____

YORK

ANALYTICAL LABORATORIES, INC.



Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 6/29/2001
Re: Client Project ID: SG96152.21
York Project No.: 01060468

CT License No: PH-0723 New York License No: 10854 Mass License No: M-CT106 Rhode Island License No: 98 EPA I.D. No: CT00106

nelac nelap

Report Date: 6/29/2001
Client Project ID: SG96152.21
York Project No.: 01060468

Ecosystems Strategies, Inc.
50 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/19/01. The project was identifed as your project "SG96152.21."

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s):

Analysis Results

Client Sample ID			RD-3		RD-4	
York Sample ID			01060468-01		01060468-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS water	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			5	1	Not detected	1
1,3,5-Trimethylbenzene			1	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methyl-tert-butyl ether			Not detected	1	Not detected	1
Naphthalene			58	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	2	Not detected	2
p- & m- Xylenes			2	2	Not detected	2
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
Total Xylenes			2	2	Not detected	2

Client Sample ID			RD-3		RD-4	
York Sample ID			01060468-01		01060468-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	10	Not detected	10
Acenaphthylene			Not detected	10	Not detected	10
Anthracene			Not detected	10	Not detected	10
Benzo[a]anthracene			Not detected	10	Not detected	10
Benzo[a]pyrene			Not detected	10	Not detected	10
Benzo[b]fluoranthene			Not detected	10	Not detected	10
Benzo[g,h,i]perylene			Not detected	10	Not detected	10
Benzo[k]fluoranthene			Not detected	10	Not detected	10
Chyrsene			Not detected	10	Not detected	10
Dibenz[a,h]anthracene			Not detected	10	Not detected	10
Fluoranthene			Not detected	10	Not detected	10
Fluorene			Not detected	10	Not detected	10
Indeno[1,2,3-cd]pyrene			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
Phenanthrene			Not detected	10	Not detected	10
Pyrene			Not detected	10	Not detected	10

Client Sample ID			RD-7		RD-9	
York Sample ID			01060468-03		01060468-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS water	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methyl-tert-butyl ether			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	2	Not detected	2
p- & m- Xylenes			Not detected	2	Not detected	2
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
Total Xylenes			Not detected	2	Not detected	2
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	10	Not detected	10
Acenaphthylene			Not detected	10	Not detected	10
Anthracene			Not detected	10	Not detected	10
Benzo[a]anthracene			Not detected	10	Not detected	10
Benzo[a]pyrene			Not detected	10	Not detected	10
Benzo[b]fluoranthene			Not detected	10	Not detected	10
Benzo[g,h,i]perylene			Not detected	10	Not detected	10
Benzo[k]fluoranthene			Not detected	10	Not detected	10
Chyrsene			Not detected	10	Not detected	10

Client Sample ID			RD-7		RD-9	
York Sample ID			01060468-03		01060468-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Dibenz[a,h]anthracene			Not detected	10	Not detected	10
Fluoranthene			Not detected	10	Not detected	10
Fluorene			Not detected	10	Not detected	10
Indeno[1,2,3-cd]pyrene			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
Phenanthrene			Not detected	10	Not detected	10
Pyrene			Not detected	10	Not detected	10

Client Sample ID			RD-10	
York Sample ID			01060468-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS water	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			Not detected	1
1,3,5-Trimethylbenzene			Not detected	1
Benzene			Not detected	1
Ethylbenzene			Not detected	1
Isopropylbenzene			Not detected	1
Methyl-tert-butyl ether			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			Not detected	1
n-Propylbenzene			Not detected	1
o-Xylene			Not detected	2
p- & m- Xylenes			Not detected	2
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			Not detected	1
tert-Butylbenzene			Not detected	1
Toluene			9	1
Total Xylenes			Not detected	2
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/L	---	---
Acenaphthene			Not detected	10
Acenaphthylene			Not detected	10
Anthracene			24	10
Benzo[a]anthracene			Not detected	10
Benzo[a]pyrene			Not detected	10
Benzo[b]fluoranthene			Not detected	10
Benzo[g,h,i]perylene			Not detected	10
Benzo[k]fluoranthene			Not detected	10
Chyrsene			Not detected	10
Dibenz[a,h]anthracene			Not detected	10
Fluoranthene			Not detected	10
Fluorene			Not detected	10
Indeno[1,2,3-cd]pyrene			Not detected	10
Naphthalene			Not detected	10
Phenanthrene			67	10
Pyrene			Not detected	10

Units Key: For Waters/Liquids: mg/L = ppm ug/L = ppb For Soils/Solids: mg/kg = ppm , ug/kg = ppb

Report Date: 6 29 2001
Client Project ID: SG96152.21
York Project No: 01060468

Notes for York Project No: 01060468

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target analytes and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 6/29/2001

Robert Q. Bradley
Managing Director

YORK

YORK
ALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
3) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.
SYSTEMS STRATEGIES INC	JONATHAN A KAPLAN	PAM	596152.21

Samples Collected By (Signature)

Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	RD-3	6/18/01	X				8270 PAH's / 8021 BTEX	1 3 oz 2 voa's
	RD-4							
	RD 7							
	RD-9							
	RD-10	X	X					

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time: 6/19/2001 12:50
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time
		Sample Received by	Date/Time
		Sample Received in LAB by	Date/Time: 6-19-01/1600

Comments/Special Instructions: Cooler Sample Temp: 4.8°C

Turn-Around Time: Standard RUSH(define)

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 10/30/2001
Re: Client Project ID: SG96152.20
York Project No.: 01100490

CT License No. PH-0200 New York License No. 10854 Mass. License No. M-CT900 RI License No. 98 LELAP Lic. No. 10854

nelac nelap

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: [illegible]
Client Project ID: SG96152.20
York Project No.: [illegible]

Ecosystems Strategies, Inc
8 Worrall Avenue
Poughkeepsie, NY 12601
Attention: Jonathan A. Kapler

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 10/22/01. The project was identified as your project "SG96152.20."

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			RD-3		RD-4	
York Sample ID			01100490-01		01100490-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021-MTBE water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichlorpropane			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1

YORK

Client Sample ID			RD-3		RD-4	
York Sample ID			01190490-01		01190490-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methyl tert-butyl ether (MTBE)			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	10	Not detected	10
Acenaphthylene			Not detected	10	Not detected	10
Anthracene			Not detected	10	Not detected	10
Benzo[a]anthracene			Not detected	10	Not detected	10
Benzo[a]pyrene			Not detected	10	Not detected	10
Benzo[b]fluoranthene			Not detected	10	Not detected	10
Benzo[g,h,i]perylene			Not detected	10	Not detected	10

Client Sample ID			RD-5		RD-6	
York Sample ID			01100490-01		01100490-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzo[b]fluoranthene			Not detected	10	Not detected	10
Chrysene			Not detected	10	Not detected	10
Dibenz[a,h]anthracene			Not detected	10	Not detected	10
Fluoranthene			Not detected	10	Not detected	10
Fluorene			Not detected	10	Not detected	10
Indeno[1,2,3-cd]pyrene			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
Phenanthrene			Not detected	10	Not detected	10
Pyrene			Not detected	10	Not detected	10

Client Sample ID			RD-7		RD-10	
York Sample ID			01100490-03		01100490-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021+MTBE water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,2,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1

Client Sample ID			RD-1		RD-1D	
York Sample ID			9110090-03		9110090-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	2	1
Methyl tert-butyl ether (MTBE)			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	1	1
n-Propylbenzene			Not detected	1	2	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	10	Not detected	50
Acenaphthylene			Not detected	10	Not detected	50
Anthracene			Not detected	10	Not detected	50
Benzo[a]anthracene			Not detected	10	Not detected	50
Benzo[a]pyrene			Not detected	10	Not detected	50
Benzo[b]fluoranthene			Not detected	10	Not detected	50
Benzo[g,h,i]perylene			Not detected	10	Not detected	50
Benzo[k]fluoranthene			Not detected	10	Not detected	50
Chrysene			Not detected	10	Not detected	50
Dibenz[a,h]anthracene			Not detected	10	Not detected	50
Fluoranthene			Not detected	10	Not detected	50
Fluorene			Not detected	10	Not detected	50
Indeno[1,2,3-cd]pyrene			Not detected	10	Not detected	50
Naphthalene			Not detected	10	Not detected	50
Phenanthrene			Not detected	10	Not detected	50
Pyrene			Not detected	10	Not detected	50

Units Key: For Waters/Liquids: mg/L = ppm ug/L = ppb For Soils/Solids: mg/kg = ppm ug/kg = ppb

YORK

Report Date: 10/30/2001
Client Project ID: [illegible]
York Project (SDG) No.: [illegible]

Notes for York Project No.: [illegible]

1. The CRDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the level of target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 10/30/2001

Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
ESI	JONATHAN A. KAPLAN	PAM	SG96152.20	JONATHAN A. KAPLAN

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	RD 7	10/19/01	X				8021 + MTBE / 8240 (AIR)	
	RD 1							
	RD 7							
	RD 10		X				X	

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
			10/22/01 1200		
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

Comments/Special Instructions

4.8

Turn-Around Time: X Standard ___ RUSH(define) ___

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 4/8/2003
Re: Client Project ID: SG96152
York Project No.: 03030696

CT License No: PH-0723 New York License No: 10854 Mass License No: M-CT106 Rhode Island License No: 98 NJ License No: CT40

nelac nelap

Report Date: 4/8/2003
Client Project ID: SG96152
York Project No.: 03030696

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 03/28/03. The project was identifed as your project "SG96152."

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			2PE-1 (5-7')		2PE-2 (5-7')	
York Sample ID			03030696-01		03030696-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-BTEX soil by 8021B	8021B	ug/Kg	---	---	---	---
Benzene			15	10	Not detected	10
Ethylbenzene			350	10	350	10
o-Xylene			120	10	Not detected	10
p- & m-Xylenes			980	10	300	10
Toluene			19	10	Not detected	10
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			3700	3300	3600	3300
Acenaphthylene			Not detected	3300	Not detected	3300
Anthracene			Not detected	3300	Not detected	3300
Benzo[a]anthracene			Not detected	3300	Not detected	3300
Benzo[a]pyrene			Not detected	3300	Not detected	3300
Benzo[b]fluoranthene			Not detected	3300	Not detected	3300
Benzo[g,h,i]perylene			Not detected	3300	Not detected	3300
Benzo[k]fluoranthene			Not detected	3300	Not detected	3300
Chrysene			Not detected	3300	Not detected	3300
Dibenz[a,h]anthracene			Not detected	3300	Not detected	3300

Client Sample ID			2PE-1 (5-7')		2PE-2 (5-7')	
York Sample ID			03030696-01		03030696-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluoranthene			Not detected	3300	Not detected	3300
Fluorene			5300	3300	8100	3300
Indeno[1,2,3-cd]pyrene			Not detected	3300	Not detected	3300
Naphthalene			8200	3300	4600	3300
Phenanthrene			5500	3300	14000	3300
Pyrene			5700	3300	7000	3300
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			38.1	1.00	3.07	1.00
Barium, total			37.9	0.50	20.7	0.50
Cadmium, total			Not detected	0.50	Not detected	0.50
Chromium, total			7.43	0.50	4.61	0.50
Lead, total			48.4	0.50	11.8	0.50
Selenium, total			2.54	1.00	Not detected	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			2PE-3 (5-7')		2PE-4 (5-7')	
York Sample ID			03030696-03		03030696-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-BTEX soil by 8021B	8021B	ug/Kg	---	---	---	---
Benzene			Not detected	10	Not detected	10
Ethylbenzene			16	10	39	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	1700	Not detected	3300
Acenaphthylene			Not detected	1700	Not detected	3300
Anthracene			Not detected	1700	Not detected	3300
Benzo[a]anthracene			Not detected	1700	Not detected	3300
Benzo[a]pyrene			Not detected	1700	Not detected	3300
Benzo[b]fluoranthene			Not detected	1700	Not detected	3300
Benzo[g,h,i]perylene			Not detected	1700	Not detected	3300
Benzo[k]fluoranthene			Not detected	1700	Not detected	3300
Chrysene			Not detected	1700	Not detected	3300
Dibenz[a,h]anthracene			Not detected	1700	Not detected	3300
Fluoranthene			Not detected	1700	Not detected	3300
Fluorene			Not detected	1700	4900	3300
Indeno[1,2,3-cd]pyrene			Not detected	1700	Not detected	3300
Naphthalene			Not detected	1700	Not detected	3300
Phenanthrene			Not detected	1700	6300	3300
Pyrene			Not detected	1700	Not detected	3300
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			6.11	1.00	7.48	1.00
Barium, total			27.6	0.50	35.1	0.50
Cadmium, total			Not detected	0.50	Not detected	0.50
Chromium, total			6.22	0.50	5.73	0.50
Lead, total			123	0.50	27.3	0.50

Client Sample ID			2PE-3 (5-7')		2PE-4 (5-7')	
York Sample ID			03030696-03		03030696-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Selenium, total			Not detected	1.00	Not detected	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			2PE-5 (5-7')	
York Sample ID			03030696-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-BTEX soil by 8021B	8021B	ug/Kg	---	---
Benzene			Not detected	10
Ethylbenzene			19	10
o-Xylene			Not detected	10
p- & m-Xylenes			37	10
Toluene			Not detected	10
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	6600
Acenaphthylene			Not detected	6600
Anthracene			Not detected	6600
Benzo[a]anthracene			Not detected	6600
Benzo[a]pyrene			Not detected	6600
Benzo[b]fluoranthene			Not detected	6600
Benzo[g,h,i]perylene			Not detected	6600
Benzo[k]fluoranthene			Not detected	6600
Chrysene			Not detected	6600
Dibenz[a,h]anthracene			Not detected	6600
Fluoranthene			Not detected	6600
Fluorene			Not detected	6600
Indeno[1,2,3-cd]pyrene			Not detected	6600
Naphthalene			Not detected	6600
Phenanthrene			9800	6600
Pyrene			Not detected	6600
Total RCRA Metals	SW846	mg/kG	---	---
Arsenic, total			6.95	1.00
Barium, total			32.7	0.50
Cadmium, total			Not detected	0.50
Chromium, total			8.53	0.50
Lead, total			63.7	0.50
Selenium, total			Not detected	1.00
Silver, total			Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.10

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Report Date: 4/8/2003
Client Project ID: SG96152
York Project No.: 03030696

Notes for York Project No.: 03030696

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 4/8/2003

Robert Q. Bradley
Managing Director

YORK

YORK
ALYTICAL LABORATORIES, INC.
ONE REBEARCH DRIVE
STAMFORD, CT 06906
31 325 1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature)
Systems Strategies	Jonathan A. Kaplan	Pam Q.	SG9615Z	Jonathan A. Kaplan (Name Printed)

ple No	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	2PE-1 (5-7')	3.27.03		x			8270 PAH's, 8021 B-TEX only, RCRA METALS	1-8oz
	2PE-2 (5-7')							
	2PE-3 (5-7')							
	2PE-4 (5-7')							
	2PE-5 (5-7')	x		x			x	

of-Custody Record					
es Relinquished from Lab by	Date/Time	Sample Relinquished by	3/28/03 3:35 Date/Time	Sample Received by	3/29 330 Date/Time
les Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

nts/Special Instructions

Turn-Around Time
X Standard RUSH(define)

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 4/8/2003
Re: Client Project ID: SG96152
York Project No.: 03030696

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 NJ License No. CT401

nel c nelap

Report Date: 4/8/2003
Client Project ID: SG96152
York Project No.: 03030696

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 03/28/03. The project was identifed as your project "SG96152 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			2PE-1 (5-7')		2PE-2 (5-7')	
York Sample ID			03030696-01		03030696-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-BTEX soil by 8021B	8021B	ug/Kg	---	---	---	---
Benzene			15	10	Not detected	10
Ethylbenzene			350	10	350	10
o-Xylene			120	10	Not detected	10
p- & m-Xylenes			980	10	300	10
Toluene			19	10	Not detected	10
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			3700	3300	3600	3300
Acenaphthylene			Not detected	3300	Not detected	3300
Anthracene			Not detected	3300	Not detected	3300
Benzo[a]anthracene			Not detected	3300	Not detected	3300
Benzo[a]pyrene			Not detected	3300	Not detected	3300
Benzo[b]fluoranthene			Not detected	3300	Not detected	3300
Benzo[g,h,i]perylene			Not detected	3300	Not detected	3300
Benzo[k]fluoranthene			Not detected	3300	Not detected	3300
Chrysene			Not detected	3300	Not detected	3300
Dibenz[a,h]anthracene			Not detected	3300	Not detected	3300

Client Sample ID			2PE-1 (5-7')		2PE-2 (5-7')	
York Sample ID			03030696-01		03030696-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluoranthene			Not detected	3300	Not detected	3300
Fluorene			5300	3300	8100	3300
Indeno[1,2,3-cd]pyrene			Not detected	3300	Not detected	3300
Naphthalene			8200	3300	4600	3300
Phenanthrene			5500	3300	14000	3300
Pyrene			5700	3300	7000	3300
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			38.1	1.00	3.07	1.00
Barium, total			37.9	0.50	20.7	0.50
Cadmium, total			Not detected	0.50	Not detected	0.50
Chromium, total			7.43	0.50	4.61	0.50
Lead, total			48.4	0.50	11.8	0.50
Selenium, total			2.54	1.00	Not detected	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			2PE-3 (5-7')		2PE-4 (5-7')	
York Sample ID			03030696-03		03030696-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-BTEX soil by 8021B	8021B	ug/Kg	---	---	---	---
Benzene			Not detected	10	Not detected	10
Ethylbenzene			16	10	39	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	1700	Not detected	3300
Acenaphthylene			Not detected	1700	Not detected	3300
Anthracene			Not detected	1700	Not detected	3300
Benzo[a]anthracene			Not detected	1700	Not detected	3300
Benzo[a]pyrene			Not detected	1700	Not detected	3300
Benzo[b]fluoranthene			Not detected	1700	Not detected	3300
Benzo[g,h,i]perylene			Not detected	1700	Not detected	3300
Benzo[k]fluoranthene			Not detected	1700	Not detected	3300
Chrysene			Not detected	1700	Not detected	3300
Dibenz[a,h]anthracene			Not detected	1700	Not detected	3300
Fluoranthene			Not detected	1700	Not detected	3300
Fluorene			Not detected	1700	4900	3300
Indeno[1,2,3-cd]pyrene			Not detected	1700	Not detected	3300
Naphthalene			Not detected	1700	Not detected	3300
Phenanthrene			Not detected	1700	6300	3300
Pyrene			Not detected	1700	Not detected	3300
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			6.11	1.00	7.48	1.00
Barium, total			27.6	0.50	35.1	0.50
Cadmium, total			Not detected	0.50	Not detected	0.50
Chromium, total			6.22	0.50	5.73	0.50
Lead, total			123	0.50	27.3	0.50

Client Sample ID			2PE-3 (5-7')		2PE-4 (5-7')	
York Sample ID			03030696-03		03030696-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Selenium, total			Not detected	1.00	Not detected	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			2PE-5 (5-7')	
York Sample ID			03030696-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-BTEX soil by 8021B	8021B	ug/Kg	---	---
Benzene			Not detected	10
Ethylbenzene			19	10
o-Xylene			Not detected	10
p- & m-Xylenes			37	10
Toluene			Not detected	10
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	6600
Acenaphthylene			Not detected	6600
Anthracene			Not detected	6600
Benzo[a]anthracene			Not detected	6600
Benzo[a]pyrene			Not detected	6600
Benzo[b]fluoranthene			Not detected	6600
Benzo[g,h,i]perylene			Not detected	6600
Benzo[k]fluoranthene			Not detected	6600
Chrysene			Not detected	6600
Dibenz[a,h]anthracene			Not detected	6600
Fluoranthene			Not detected	6600
Fluorene			Not detected	6600
Indeno[1,2,3-cd]pyrene			Not detected	6600
Naphthalene			Not detected	6600
Phenanthrene			9800	6600
Pyrene			Not detected	6600
Total RCRA Metals	SW846	mg/kG	---	---
Arsenic, total			6.95	1.00
Barium, total			32.7	0.50
Cadmium, total			Not detected	0.50
Chromium, total			8.53	0.50
Lead, total			63.7	0.50
Selenium, total			Not detected	1.00
Silver, total			Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.10

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Report Date: 4/8/2003
Client Project ID: SG96152
York Project No.: 03030696

Notes for York Project No. 03030696

1 The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and or non-target analytes and matrix interference
2 Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made
3 York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 4/8/2003
Robert Q. Bradley
Managing Director

YORK

YORK
NALYTICAL LABORATORIES, INC.
ONE REBEARCH DRIVE
STAMFORD, CT 06906
03) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature)
osystems Strategies	Jonathan A. Kaplan	Pam Q.	SG9615Z	Jonathan A. Kaplan (Name Printed)

mple No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	2PE-1 (5-7')	3.27.03		x			8270 PAH's, 8021 B-TEX ONLY, RCRA METALS	1-8oz
	2PE-2 (5-7')							
	2PE-3 (5-7')							
	2PE-4 (5-7')							
	2PE-5 (5-7')	x		x			x	

-of-Custody Record

tles Relinquished from Lab by	Date/Time	C Kuhn	3/28/03 3:3[illegible]	Wayne	3/21 330
		Sample Relinquished by	Date/Time	Sample Received by	Date/Time
ottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

ents/Special Instructions

4 2 C

Turn-Around Time

X Standard RUSH(define)

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jerald A. Kaplan

Report Date: 11/1/1999
Re: Client Project ID: SG96152.40
York Project No.: 99100511

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 98 EPA I.D. No. CT00105

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/1/1999
Client Project ID: SG96152.40

York Project No.: 99100511

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jerald A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 10/21/99. The project was identifed as your project "SG96152.40 ".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			S-1		S-3	
York Sample ID			99100511-01		99100511-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/kG	---	---	---	---
Naphthalene			Not detected	1700	2200	1700
Anthracene			Not detected	1700	Not detected	1700
Fluorene			5100	1700	3700	1700
Phenanthrene			8800	1700	6500	1700
Pyrene			Not detected	1700	Not detected	1700
Acenaphthene			3000	1700	2100	1700
Benzo[a]anthracene			Not detected	1700	Not detected	1700
Fluoranthene			Not detected	1700	Not detected	1700
Benzo[b]fluoranthene			Not detected	1700	Not detected	1700
Benzo[k]fluoranthene			Not detected	1700	Not detected	1700
Chrysene			Not detected	1700	Not detected	1700
Benzo[a]pyrene			Not detected	1700	Not detected	1700
Benzo[g,h,i]perylene			Not detected	1700	Not detected	1700
Indeno[1,2,3-cd]pyrene			Not detected	1700	Not detected	1700
Dibenz[a,h]anthracene			Not detected	1700	Not detected	1700

YORK

Client Sample ID			SS-1		SS-2	
York Sample ID			99100511-03		99100511-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons	EPA 418.1m	mg/kg	17149	5.0	16489	5.0
Volatiles-8021+MTBE soil	SW846-8260	ug/Kg	---	---	---	---
Benzene			Not detected	5.0	Not detected	5.0
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromochloromethane			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
n-Butylbenzene			70	5.0	27	5.0
sec-Butylbenzene			37	5.0	18	5.0
tert-Butylbenzene			6	5.0	10	5.0
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	11	5.0
1,4-Dichlorobenzene			Not detected	5.0	6	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichloropropane			Not detected	5.0	Not detected	5.0
2,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Hexachlorobutadiene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			12	5.0	9	5.0
p-Isopropyltoluene			Not detected	5.0	7	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Naphthalene			65	5.0	17	5.0
n-Propylbenzene			17	5.0	23	5.0
Styrene			Not detected	5.0	Not detected	5.0
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			SS-1		SS-2	
York Sample ID			99100511-03		99100511-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0	Not detected	5.0
1,2,4-Trimethylbenzene			430	5.0	120	5.0
1,3,5-Trimethylbenzene			10	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50
o-Xylene			5	5.0	Not detected	5.0
p- & m-Xylenes			10	5.0	9	5.0
Methyl tert-butyl ether (MTBE)			Not detected	5.0	Not detected	5.0
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			35.2	1.00	27.6	1.00
Selenium, total			3.44	1.00	3.11	1.00
Chromium, total			8.29	0.50	8.24	0.50
Cadmium, total			Not detected	0.50	Not detected	0.50
Lead, total			2180	0.50	518	0.50
Barium, total			79.4	0.50	65.4	0.50
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.25	0.272	0.25
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
Acenaphthene			1900	1700	Not detected	1700
Acenaphthylene			Not detected	1700	Not detected	1700
Anthracene			Not detected	1700	Not detected	1700
Benzo(a)anthracene			Not detected	1700	Not detected	1700
Benzo(b)fluoranthene			Not detected	1700	Not detected	1700
Benzo(k)fluoranthene			Not detected	1700	Not detected	1700
Benzo(g,h,i)perylene			Not detected	1700	Not detected	1700
Benzo(a)pyrene			Not detected	1700	Not detected	1700
Benzyl alcohol			Not detected	1700	Not detected	1700
Bis(2-chloroethoxy)methane			Not detected	1700	Not detected	1700
Bis(2-chloroethyl)ether			Not detected	1700	Not detected	1700
Bis(2-chloroisopropyl)ether			Not detected	1700	Not detected	1700
Bis(2-ethylhexyl)phthalate			Not detected	1700	Not detected	1700
4-Bromophenyl phenyl ether			Not detected	1700	Not detected	1700
Butyl benzyl phthalate			Not detected	1700	Not detected	1700
4-Chloroaniline			Not detected	1700	Not detected	1700
2-Chloronaphthalene			Not detected	1700	Not detected	1700
4-Chloro-3-methyl phenol			Not detected	1700	Not detected	1700
2-Chlorophenol			Not detected	1700	Not detected	1700
4-Chlorophenyl phenyl ether			Not detected	1700	Not detected	1700
Chrysene			Not detected	1700	Not detected	1700
Dibenz(a,h)anthracene			Not detected	1700	Not detected	1700
Dibenzofuran			Not detected	1700	Not detected	1700
Di-n-butylphthalate			Not detected	1700	Not detected	1700
1,3-Dichlorobenzene			Not detected	1700	Not detected	1700
1,4-Dichlorobenzene			Not detected	1700	Not detected	1700
1,2-Dichlorobenzene			Not detected	1700	Not detected	1700
3,3'-Dichlorobenzidine			Not detected	1700	Not detected	1700
2,4-Dichlorophenol			Not detected	1700	Not detected	1700

YORK

Client Sample ID			SS-1		SS-2	
York Sample ID			99100511-03		99100511-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Diethylphthalate			Not detected	1700	Not detected	1700
2,4-Dimethylphenol			Not detected	1700	Not detected	1700
Dimethylphthalate			Not detected	1700	Not detected	1700
4,6-Dinitro-2-methylphenol			Not detected	8500	Not detected	8500
2,4-Dinitrophenol			Not detected	8500	Not detected	8500
2,4-Dinitrotoluene			Not detected	1700	Not detected	1700
2,6-Dinitrotoluene			Not detected	1700	Not detected	1700
Di-n-octylphthalate			Not detected	1700	Not detected	1700
Fluoranthene			Not detected	1700	Not detected	1700
Fluorene			3600	1700	1800	1700
Hexachlorobenzene			Not detected	1700	Not detected	1700
Hexachlorobutadiene			Not detected	1700	Not detected	1700
Hexachlorocyclopentadiene			Not detected	1700	Not detected	1700
Hexachloroethane			Not detected	1700	Not detected	1700
Indeno(1,2,3-cd)pyrene			Not detected	1700	Not detected	1700
Isophorone			Not detected	1700	Not detected	1700
2-Methylnaphthalene			9200	1700	6500	1700
2-Methylphenol			Not detected	1700	Not detected	1700
4-Methylphenol			Not detected	1700	Not detected	1700
Naphthalene			1900	1700	Not detected	1700
2-Nitroaniline			Not detected	8500	Not detected	8500
3-Nitroaniline			Not detected	8500	Not detected	8500
4-Nitroaniline			Not detected	8500	Not detected	8500
Nitrobenzene			Not detected	1700	Not detected	1700
2-Nitrophenol			Not detected	1700	Not detected	1700
4-Nitrophenol			Not detected	8500	Not detected	8500
N-Nitrosodiphenylamine			Not detected	1700	Not detected	1700
N-Nitrosodi-n-propylamine			Not detected	1700	Not detected	1700
Pentachlorophenol			Not detected	8500	Not detected	8500
Phenanthrene			6100	1700	3300	1700
Phenol			Not detected	1700	Not detected	1700
Pyrene			Not detected	1700	Not detected	1700
1,2,4-Trichlorobenzene			Not detected	1700	Not detected	1700
2,4,5-Trichlorophenol			Not detected	1700	Not detected	1700
2,4,6-Trichlorophenol			Not detected	1700	Not detected	1700
PCB	SW846-8080	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.02	Not detected	0.02
PCB 1221			Not detected	0.02	Not detected	0.02
PCB 1232			Not detected	0.02	Not detected	0.02
PCB 1242			Not detected	0.02	Not detected	0.02
PCB 1248			Not detected	0.02	Not detected	0.02
PCB 1254			Not detected	0.02	Not detected	0.02
PCB 1260			Not detected	0.02	Not detected	0.02
PCB, Total			Not detected	0.02	Not detected	0.02
pH	EPA 150.1	units	5.86	---	5.44	---
Reactivity-Cyanide	SW846 7.3	mg/kg	Not detected	0.25	Not detected	0.25
Reactivity-Sulfide	SW846 7.3	mg/kg	Not detected	15	Not detected	15

YORK

Client Sample ID			SS-3	
York Sample ID			99100511-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Petroleum Hydrocarbons	EPA 418.1m	mg/kg	16819	5.0
Volatiles-8021+MTBE soil	SW846-8260	ug/Kg	---	---
Benzene			Not detected	5.0
Bromobenzene			Not detected	5.0
Bromochloromethane			Not detected	5.0
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	50
n-Butylbenzene			67	5.0
sec-Butylbenzene			57	5.0
tert-Butylbenzene			39	5.0
Carbon tetrachloride			Not detected	5.0
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	5.0
Chloroform			Not detected	5.0
Chloromethane			Not detected	50
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0
1,2-Dibromoethane			Not detected	5.0
Dibromomethane			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,3-Dichlorobenzene			11	5.0
1,4-Dichlorobenzene			8	5.0
Dichlorodifluoromethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0
1,2-Dichloropropane			Not detected	5.0
1,3-Dichloropropane			Not detected	5.0
2,2-Dichloropropane			Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Ethylbenzene			7	5.0
Hexachlorobutadiene			Not detected	5.0
Isopropylbenzene			15	5.0
p-Isopropyltoluene			24	5.0
Methylene chloride			Not detected	5.0
Naphthalene			120	5.0
n-Propylbenzene			Not detected	5.0
Styrene			Not detected	5.0
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
Tetrachloroethylene			Not detected	5.0
Toluene			Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0

YORK

Client Sample ID			SS-3	
York Sample ID			99100511-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,2,4-Trichlorobenzene			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0
1,2,4-Trimethylbenzene			460	5.0
1,3,5-Trimethylbenzene			17	5.0
Vinyl chloride			Not detected	50
o-Xylene			Not detected	5.0
p- & m-Xylenes			10	5.0
Methyl tert-butyl ether (MTBE)			Not detected	5.0
Total RCRA Metals	SW846	mg/kG	---	---
Arsenic, total			19.5	1.00
Selenium, total			1.88	1.00
Chromium, total			8.26	0.50
Cadmium, total			Not detected	0.50
Lead, total			8390	0.50
Barium, total			70.4	0.50
Silver, total			Not detected	0.50
Mercury	SW846-7471	mg/kG	0.342	0.25
BNA-8270 List soil	SW846-8270	ug/Kg	---	---
Acenaphthene			2600	1700
Acenaphthylene			Not detected	1700
Anthracene			Not detected	1700
Benzo(a)anthracene			Not detected	1700
Benzo(b)fluoranthene			Not detected	1700
Benzo(k)fluoranthene			Not detected	1700
Benzo(g,h,i)perylene			Not detected	1700
Benzo(a)pyrene			Not detected	1700
Benzyl alcohol			Not detected	1700
Bis(2-chloroethoxy)methane			Not detected	1700
Bis(2-chloroethyl)ether			Not detected	1700
Bis(2-chloroisopropyl)ether			3100	1700
Bis(2-ethylhexyl)phthalate			Not detected	1700
4-Bromophenyl phenyl ether			Not detected	1700
Butyl benzyl phthalate			Not detected	1700
4-Chloroaniline			Not detected	1700
2-Chloronaphthalene			Not detected	1700
4-Chloro-3-methyl phenol			Not detected	1700
2-Chlorophenol			Not detected	1700
4-Chlorophenyl phenyl ether			Not detected	1700
Chrysene			Not detected	1700
Dibenz(a,h)anthracene			Not detected	1700
Dibenzofuran			Not detected	1700
Di-n-butylphthalate			Not detected	1700
1,3-Dichlorobenzene			Not detected	1700
1,4-Dichlorobenzene			Not detected	1700
1,2-Dichlorobenzene			Not detected	1700
3,3'-Dichlorobenzidine			Not detected	1700
2,4-Dichlorophenol			Not detected	1700

YORK

Client Sample ID			SS-3	
York Sample ID			99100511-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Diethylphthalate			Not detected	1700
2,4-Dimethylphenol			Not detected	1700
Dimethylphthalate			Not detected	1700
4,6-Dinitro-2-methylphenol			Not detected	8500
2,4-Dinitrophenol			Not detected	8500
2,4-Dinitrotoluene			Not detected	1700
2,6-Dinitrotoluene			Not detected	1700
Di-n-octylphthalate			Not detected	1700
Fluoranthene			Not detected	1700
Fluorene			4900	1700
Hexachlorobenzene			Not detected	1700
Hexachlorobutadiene			Not detected	1700
Hexachlorocyclopentadiene			Not detected	1700
Hexachloroethane			Not detected	1700
Indeno(1,2,3-cd)pyrene			Not detected	1700
Isophorone			Not detected	1700
2-Methylnaphthalene			6000	1700
2-Methylphenol			Not detected	1700
4-Methylphenol			Not detected	1700
Naphthalene			2200	1700
2-Nitroaniline			Not detected	8500
3-Nitroaniline			Not detected	8500
4-Nitroaniline			Not detected	8500
Nitrobenzene			Not detected	1700
2-Nitrophenol			Not detected	1700
4-Nitrophenol			Not detected	8500
N-Nitrosodiphenylamine			Not detected	1700
N-Nitrosodi-n-propylamine			Not detected	1700
Pentachlorophenol			Not detected	8500
Phenanthrene			7700	1700
Phenol			Not detected	1700
Pyrene			Not detected	1700
1,2,4-Trichlorobenzene			Not detected	1700
2,4,5-Trichlorophenol			Not detected	1700
2,4,6-Trichlorophenol			Not detected	1700
PCB	SW846-8080	mg/Kg	---	---
PCB 1016			Not detected	0.02
PCB 1221			Not detected	0.02
PCB 1232			Not detected	0.02
PCB 1242			Not detected	0.02
PCB 1248			Not detected	0.02
PCB 1254			Not detected	0.02
PCB 1260			Not detected	0.02
PCB, Total			Not detected	0.02
pH	EPA 150.1	units	5.07	---
Reactivity-Cyanide	SW846 7.3	mg/kg	Not detected	0.25
Reactivity-Sulfide	SW846 7.3	mg/kg	Not detected	15

YORK

Client Sample ID			Base 6'	
York Sample ID			99100511-06	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Polynuclear Aromatic Hydroc.(BN)	SW846-8270	ug/kG	---	---
Naphthalene			Not detected	1700
Anthracene			Not detected	1700
Fluorene			Not detected	1700
Phenanthrene			Not detected	1700
Pyrene			Not detected	1700
Acenaphthene			Not detected	1700
Benzo[a]anthracene			Not detected	1700
Fluoranthene			Not detected	1700
Benzo[b]fluoranthene			Not detected	1700
Benzo[k]fluoranthene			Not detected	1700
Chrysene			Not detected	1700
Benzo[a]pyrene			Not detected	1700
Benzo[g,h,i]perylene			Not detected	1700
Indeno[1,2,3-cd]pyrene			Not detected	1700
Dibenz[a,h]anthracene			Not detected	1700

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____ Date: 11/1/1999

Robert Q. Bradley
Managing Director

YORK

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ANALYTICAL LABORATORIES, INC.
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Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No	Samples Collected By (Signature) / Name (Printed)
Ecosystems	Jay Kaplan	Pam	SG9652.40	Jay Kaplan

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	S-1	10/19/99		X			8270 (PAHs only)	1 - 4oz
	S-3	↓		X			8270 PAHs only	1 - 4oz
	SS-1			X			TPH(418.1), VOCs (8021), Total RCRA Metals, SVOCs 8270, PCBs (8082), Total Sulfur*, Total Cyanide, pH	1-4oz
	SS-2			X			↓	2-4oz
	SS-3			X				2-4oz
	Base(6')	10/20/99		X			8270 (PAHs only)	1 - 4oz

Chain-of-Custody Record					
Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	10/21/99 1pm Date/Time	R. VanDamon	10-21-99 1:15 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	10/21/99 16:00 Date/Time

Comments/Special Instructions: * Baseline expanded + Reactive Sulfide as per RA 11/2/99

Turn-Around Time: X Standard ____ RUSH(define)____

APPENDIX D

Data Tables

able 1: Summary of Detected PAHs for RD-2, RD-3, RD-4, and RD-6 for Garret Storm

All concentrations are expressed in parts per billion (ppb). Results in **bold** exceed designated action levels.

Compound (USEPA Method 8270)	Action Level[1]	RD-2				RD-3						RD-4						RD-6		
		10/ 1994	01/ 1997	10/ 2000	03/ 2001	10/ 1994	01/ 1997	10/ 2000	03/ 2001	06/ 2001	10/ 2001	10/ 1994	01/ 1997	10/ 2000	03/ 2001	06/ 2001	10/ 2001	10/ 1994	01/ 1997	10/ 2000
Acenaphthene	5	ND	ND	Monitoring Well Destroyed During 1999 Soil Excavation	Monitoring Well Destroyed During 1999 Soil Excavation	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Monitoring Well Destroyed During 1999 Soil Excavation
Acenaphthylene	5	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Anthracene	5	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo (a) Anthracene	.002[2]	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo (a) Pyrene	.002[2]	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo (b) Fluoranthene	.002[2]	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo (g,h,i) Perylene	.002[2]	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo (k) Fluoranthene	5	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chrysene	.002[2]	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibenz (a,h) Anthracene	5	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Fluoranthene	5	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Fluorene	5	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Indeno (1,2,3-cd) Pyrene	.002[2]	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	5	120	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1-Methylnapthalene	10	380	5			ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	10	
2-Methylnapthalene	5	480	ND			ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	120	ND	
Phenanthrene	5	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pyrene	5	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. Source: NYSDEC Water Quality Regulations Surface Water and Groundwater Classifications and Standards, New York State Codes, Rules and Regulations, Title 6, Chapter X parts 700-706, including amendments through August 4, 1999.

ND - Compound not detected

NA - Not Analyzed

able 2: Summary of Detected PAHs for RD-7, RD-9, RD-10 (as a replacement for RD-2 and RD-6), **RD-K1, and RD-K2 for Garret Storm**
All concentrations are expressed in parts per billion (ppb). Results in **bold** exceed designated action levels.

Compound (USEPA Method 8270)	Action Level[1]	RD-7						RD-9						RD-10			RD-K1			RD-K2	
		10/ 1994	01/ 1997	10/ 2000	03/ 2001	06/ 2001	10/ 2001	10/ 1994	01/ 1997	10/ 2000	03/ 2001	06/ 2001	10/ 2001	03/2001	06/2001	10/2001	10/ 1994	01/ 1997	10/2000 and 03/2001	01/ 1997	10/2000 and 03/2001
Acenaphthene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Well Destroyed During Site Restoration	36	ND	ND	ND	ND	No sample collected	ND	No sample collected
Acenaphthylene	5	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND		NA	ND	ND	ND	ND		ND	
Anthracene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		17	24	ND	ND	ND		ND	
Benzo (a) Anthracene	.002[2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Benzo (a) Pyrene	.002[2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Benzo (b) Fluoranthene	.002[2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Benzo (g,h,i) Perylene	.002[2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Benzo (k) Fluoranthene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Chrysene	.002[2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Dibenz (a,h) Anthracene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Fluoranthene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Fluorene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		81	ND	ND	ND	ND		ND	
Indeno (1,2,3-cd) Pyrene	.002[2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
Naphthalene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	
1-Methylnapthalene	10	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND		NA	ND	ND	ND	ND		ND	
2-Methylnapthalene	5	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND		NA	ND	ND	ND	ND		ND	
Phenanthrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		79	67	ND	ND	ND		ND	
Pyrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		22	ND	ND	ND	ND		ND	

Notes:

1 Source: NYSDEC Water Quality Regulations Surface Water and Groundwater Classifications and Standards, New York State Codes, Rules and Regulations, Title 6, Chapter X parts 700-706, including amendments through August 4, 1999.

ND - Compound not detected

NA - Not Analyzed

able 3: **Summary of Detected VOCs for RD-2, RD-3, RD-4, RD-6, RD-7, RD-9, and RD-10** (as replacement for RD-2 and RD-6) **for Garret Storm**
All concentrations are expressed in parts per billion (ppb). Results in **bold** exceed designated action levels.

Detected VOC Compounds	Action Level[1]	RD-2		RD-3				RD-4				RD-6		RD-7				RD-9			RD-10		
		01/ 1997	10/2000 and 03/2001	10/ 2000	03/ 2001	06/ 2001	10/ 2001	10/ 2000	03/ 2001	06/ 2001	10/ 2001	01/ 1997	10/2000 and 03/2001	10/ 2000	03/ 2001	06/ 2001	10/ 2001	10/ 2000	03/ 2001	06/ 2001	03/ 2001	06/ 2001	10/ 2001
1,2,4-Trimethylbenzene	5	ND	Monitoring Well Destroyed During 1999 Soil Excavation	ND	ND	5	ND	ND	ND	ND	ND	ND	Monitoring Well Destroyed During 1999 Soil Excavation	ND	ND	ND	ND	ND	ND	ND	10	ND	ND
1,3,5-Trimethylbenzene	5	ND		ND	ND	1	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	37	ND	ND
Benzene	0.7	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	7	ND	ND
Isopropylbenzene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	17	ND	2
Methyl-tert-butyl ether (MTBE)	10	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND		ND	ND	58	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	190	ND	1
n-Propylbenzene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	1	ND	2
o-Xylene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-&m-Xylenes	5	ND		ND	ND	2	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5	ND		ND	ND	2	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	41	ND	ND
tert-Butylbenzene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	49	ND	ND
Toluene	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	9	

Notes:

1. Source: NYSDEC Water Quality Regulations Surface Water and Groundwater Classifications and Standards, New York State Codes, Rules and Regulations, Title 6, Chapter X parts 700-706, including amendments through August 4, 1999.

ND - Compound was analyzed for but was not detected
NA Not Analyzed
NS - No sample collected

Table 4. Summary of PAHs in Soil Samples from October 19-20, 1999 and March 27, 2003
All results provided in µg/kg (ppb). Results in **bold** exceed designated action levels

Compound (USEPA Method 8270)	Action Level[1]	Sample Identification							
		S-1	S-3	Base 6'	2PE-1 (5-7')	2PE-2 (5-7')	2PE-3 (5-7')	2PE-4 (5-7')	2PE-5 (5-7')
Acenaphthene	50,000	3,000	2,100	ND	3,700	3,600	ND	ND	ND
Anthracene	50,000	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Anthracene	224	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
Benzo (a) Pyrene	61	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
Benzo (b) Fluoranthene	1,100	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	1,100	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (g,h,i) Perylene	50,000	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	400	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
Dibenzo (a,h) Anthracene	14	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
Fluoranthene	50,000	ND	ND	ND	ND	ND	ND	4,900	ND
Fluorene	50,000	5,100	3,700	ND	5,300	8,100	ND	ND	ND
Indeno (1,2,3-cd) Pyrene	3,200	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13,000	ND	2,200	ND	8,200	4,600	ND	ND	ND
Phenanthrene	50,000	8,800	6,500	ND	5,500	14,000	ND	6,300	9,800
Pyrene	50,000	ND	ND	ND	5,700	7,000	ND	ND	ND

Notes:
1. Source: NYSDEC Technical and Administrative Guidance Memorandum #4046 (TAGM) (January 24, 1994) as modified by subsequent, relevant NYSDEC Records of Decision (RODs).

* = Reported minimum detection levels are above TAGM action levels.
ND = Not Detected.

Table 5: Summary of Detected VOCs in Soil Samples from March 27, 2003

All results measured in µg/kg-ppb. Results in **bold** exceed designated action levels

Compound (USEPA Method 8260)	Action Level[1,2]	Sample Identification				
		2PE-1 (5-7')	2PE-2 (5-7')	2PE-3 (5-7')	2PE-4 (5-7')	2PE-5 (5-7')
Benzene	60	15	ND	ND	ND	ND
Ethylbenzene	5500	350	350	16	39	19
o-Xylene	1200	120	ND	ND	ND	ND
p-&m-Xylenes	1200	980	300	ND	ND	37
Toluene	1500	19	ND	ND	ND	ND

Notes:

1 Source: NYSDEC Technical and Administrative Guidance Memorandum #4046 (TAGM) (January 24, 1994) as modified by subsequent relevant NYSDEC Records of Decision (RODs).

2 Source: NYSDEC Spill Technology and Remediation Series (STARS) Memo #1, July 1993.

ND = Not Detected

Table 6 Summary of RCRA Metals in Soils from March 27, 2003

All data provided in mg/kg. Concentrations shown in **bold** exceed NYSDEC established action levels

Metals	Background Levels[1]	Action Levels[1]	Sample Identification				
			2PE-1 (5-7')	2PE-2 (5-7')	2PE-3 (5-7')	2PE-4 (5-7')	2PE-5 (5-7')
Arsenic	3 - 12	7.5	**38.1**	3.07	6.11	7.48	6.95
Barium	15 -600	300	37.9	20.7	27.6	35.1	32.7
Cadmium	0.1 - 1	1	ND	ND	ND	ND	ND
Chromium	1.5 - 4.0	10	7.43	4.61	6.22	5.73	8.53
Lead	4 - 61	250	48.4	11.8	123	27.3	63.7
Mercury	0.001 - 0.2	0.1	ND	ND	ND	ND	ND
Selenium	0.1 - 3.9	2	**2.54**	ND	ND	ND	ND
Silver	NP	SB	ND	ND	ND	ND	ND

Notes:

1 Source: NYSDEC Technical and Administrative Guidance Memorandum #4046 (January 24, 1994) as modified by subsequent, relevant NYSDEC Records of Decision (RODs)

ND = Not detected above specified detection limit

SB = Site Background

APPENDIX E

Observation/Recovery Well Monitoring Logs

GARRETT STORM PROPERTY: PRODUCT RECOVERY MONITORING EVENT LOG: ESI NUMBER SG96152 (WELL 1- NORTH, WELL 2- SOUTH)

DATE	PID	ODOR	VISUAL	TIME/ TIDE	OBSERVE
[illegible]	[illegible]	[illegible] PETROLEUM ODOR [illegible] PETROLEUM ODOR	[illegible] SHEEN [illegible]	[illegible]	[illegible]
2/12/01	N/A	(1) STRONG ODOR (2) SLIGHT PETROLEUM ODOR	(1) SOME STAINING DARK OIL-LIKE (2) YELLOWISH STAINING ON Boom	12:30 PM	BOOM REMOVED [illegible] REVERSED - OBSERVE WATCH GATE Boom & SPENT Booms WILL BE STORED IN ADJACENT BARN IN BARRELS INSTALLED LOCK AT BARN DOOR
3/7/01	(1) 11 ppm (2) 0.0	(1) STRONG ODOR PET. (2) SLIGHT ODOR PET.	(1) MINOR SHEEN ON SURFACE (2) SLIGHT SHEEN + ODOR IN R.W.	2:30 P HIGH TO OUTGOING	(1) LONG Boom REMOVED SATURATED - REPLACED W/ SMALL PROPER DIAMETER Boom. SPENT Boom RETURNED TO BARN (2) LONG Boom REVERSED
5/3/01	3 45 [illegible]	(1) STRONG ODOR (2) STRONG ODOR	(1) STAINING/SHEEN ON Boom REMAINS ON Boom (2) STAINING/SHEEN ON Boom REMAINS ON Boom	3:45 HIGH TIDE OUTGOING? SLACK POSSIBLE	(1) SMALL Boom REMOVED (SATURATED) SMALL Boom CLEAN INSERTED (2) LONG Boom REMOVED, SATURATED)) SMALL Boom INSERTED)

OBSERVATION/RECOVERY WELL MONITORING LOG - FORMER GARRETT STORM MOSF
ORW-1 (NORTH)- ORW-2 (SOUTH)

DATE	TIME/TIDE	PID	OBSERVATIONS
10/8 01	3 15 P HIGH	30 ppm under Boom	ORW-1: Boom REMOVED (STAINED SATURATED) STRONG PET. ODOR, VISIBLE SHEEN - Boom USE DISCONTINUED
10-8-01	3 25 P HIGH	14.8 PPM under Boom	ORW-2: Boom REMOVED (STAINED SATURATED) PET ODOR BENEATH Boom VISIBLE SHEEN - Boom USE DISCONTINUED
11-14-01	11:40 A INCOMING ALMOST HIGH	0.4 ppm	O/RW-1(N) - SLIGHT PET. ODOR, SLIGHT SURFACE SHEEN
11-14-01	11:50 A INCOMING ALMOST HIGH	0.0 ppm	O/RW-2(S) - SLIGHT PET. ODOR, SLIGHT SURFACE SHEEN
4-17-02	3:11 P INCOMING HIGH	1.2 PPM	O/RW-1(N) - SLIGHT SHEEN, SLIGHT PET ODOR. BAILER INSERTED - SLIGHTLY CLOUDY SAMPLE - NO MEASURABLE PRODUCT AT SURFACE - SOME PET. OBVIOUS ON BAILER, SLIGHT PET. ODOR. (BAILER DEDICATED.)
4-17-02	3.34 P INCOMING HIGH	0.0	O/RW-2(S) OBSERVATIONS SAME AS ABOVE BAILER DEDICATED

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