PHASE I
REMEDIAL INVESTIGATION

Sunnyside Yard
Queens, New York

Volume II of III

January 22, 1992

Prepared for:

National Railroad Passenger Corporation
Washington D.C.

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ROUX

AM05509Y.2.1 cov

APPENDIX A

Methods of Investigation

CONTENTS

APPENDIX A
METHODS OF INVESTIGATION

1.0 OBJECTIVES

This section describes the types of samples collected and the procedures followed during the site characterization and remedial investigation activities (RI) performed at the Yard. Data generated by this investigation was used to support the screening and evaluation of remedial alternatives for the site.

2.0 SAMPLING LOCATIONS

The locations of monitoring wells and soil borings are shown in Figures 2 and 3. All monitoring well and soil boring locations and elevations were determined by Alfred W. Tay, Plainview, New York, a licensed New York State professional land surveyor. The elevations refer to the United States Coast and Geodetic datum (feet relative to mean sea level).

3.0 SAMPLE CATALOGING

Soil samples collected from borings were identified by the prefix S (Soil Boring). The boring location number follows the prefix. When more than one soil sample was collected from a single boring, the recorded sampling depth interval differentiated each sample. An example is "S-4 (3-4')", which identifies a sample collected from soil boring number four at a depth interval of 3 to 4 feet below land surface.

Boreholes drilled for the installation of monitoring wells were identified by an MW prefix (Monitoring Well). All soil samples collected during the installation of monitoring wells were identified by the well number and sampling depth interval. For example, a soil sample collected from 8 to 10 feet below land surface at monitoring well number five would be identified as "MW-5 (8-10')".

Aqueous samples were also identified by the prefix MW and the well number from which they were collected.

These numbering systems were used by the contracted laboratory, Envirosystems, Inc., Columbia, Maryland (the Laboratory) to identify samples collected for laboratory analysis during the sampling program. All chain-of-custody documentation also adhered to these numbering systems.

Samples collected were labeled with the following information:

- borehole or well number
- time and date of sample collection
- type of sample analysis
- affiliation of person(s) collecting the sample

All sampling information was recorded into a project field book.

4.0 PROTOCOL FOR SOIL SAMPLING

Soil samples were collected with a hollow stem auger drilling rig, a tripod mounted cathead (winch), or with hand tools (i.e., shovel, posthole digger, hand trowel).

4.1 Equipment Preparation

Prior to mobilization, the drill rig and all tools and accessories were thoroughly cleaned to remove all remains of previous operations (i.e., dirt, mud, dust and liquids). Cleaning of the machinery included wheels or tracks, under carriage, chassis and cab. Cleaning methods included:

(a) brushing, sweeping and/or vacuuming loose dirt;
(b) detergent wash and tap water rinse;
(c) steam cleaning; and
(d) air drying.

In addition to the general cleaning outlined above, specific items also required cleaning i.e., split-barrel samplers, auger flights, and all other down-hole tools.

4.2 Equipment Cleaning Procedures

Drilling or digging was, in general, performed beginning in areas of least contamination and proceeding toward areas of greatest known contamination.

If contamination was detected during drilling/digging operations (based on photoionization detector [PID] readings or visual observations), the drill rig was taken to an area where it was cleaned according to the procedures outlined below prior to moving to the next sampling location.

The cleaning procedure was as follows:

(a) remove all loose material and soil;
(b) rinse with tap water;
(c) steam clean; and
(d) air dry.

4.3 Sampling Tool Cleaning Procedures

Prior to soil sampling, all tools used for sample collection were cleaned in the following manner:

(a) residue oils, grit, rust and soil were removed with a stiff wire brush;
(b) thorough washing with detergent and tap water, utilizing a scrub brush;
(c) rinse with tap water;
(d) rinse with distilled or deionized water;
(e) rinse with pesticide-grade methanol, or in Area 1, with pesticide-grade hexane;
(f) rinse with distilled or deionized water; and
(g) air dry.

4.4 Soil Sampling Procedures

The following soil sampling procedures were adopted due to unanticipated site conditions and Yard regulations. These procedures were developed with and approved by the NYSDEC Project Engineer, Mr. James Quinn.

(1) At least the first 3 feet of all soil borings/well boreholes were dug using hand tools. This was required by AMTRAK in an effort to prevent damage to underground utilities. Soil samples for the 0-2 and 2-3 or 2-4 foot intervals were collected by placing the excavated soil on plastic sheeting, using separate sheets for each sample interval. The soil samples were scanned for volatile organic compounds using a PID, homogenized with a hand trowel, and a representative sample collected and placed in a proper container.

(2) Samples below 3 feet were collected by advancing a standard, 2 or 3-inch split-barrel sampler (split spoon). Loose material was brushed off the external surface of the sampler prior to opening.

(3) The sampler was placed on clean plastic sheeting and opened. Total recovery was measured and recorded. A representative composite of recovered material was immediately placed in the proper container, sealed and labelled.

(4) Any non-representative material, such as twigs, large pebbles, etc., was not placed in the sample container.

(5) Equipment used for filling sample containers was cleaned prior to each subsequent use.

(6) Any soil samples selected for laboratory analyses were placed on ice and protected from light immediately after collection and until delivery to the laboratory.

(7) Split-spoon samples were examined for lithology, evidence of contamination (presence of oil, odor) and degree of saturation. In addition, the contents of each split-spoon were tested for the presence of VOCs using a PID. All PID readings were recorded on the geologic logs. Finally, all split spoon samples were retained on site in masonry jars for potential future use.

4.5 Sample Containers

It was the responsibility of the contracted laboratory to provide clean sampling containers for the requested analyses. The sampling containers were filled according to laboratory specifications.

4.6 Sample Handling

All samples intended for laboratory analyses were placed on ice and protected from light immediately after collection and during transportation to the laboratory. The following preservation techniques and holding times were observed for soil samples.

PARAMETER	PRESERVATIVE	HOLDING TIME
Petroleum Hydrocarbons (PHCs)	Cool to 4°C	28 days
Polychlorinated Biphenyls (PCBs)	Cool to 4°C	5 days before extraction 40 days after extraction
Volatile Organic Compounds (VOCs)	Cool to 4°C	7 days before extraction 10 days after extraction
Base/Neutral Organic Compounds (BNs)	Cool to 4°C	5 days before extraction, 40 days after extraction

Pesticides	Cool to 4°C	5 days before extraction, 40 days after extraction
Total Metals	Cool to 4°C	6 months

4.7 Field Quality Control

Soil samples collected for VOC analysis were accompanied by a trip blank. The trip blank was prepared by the laboratory and consisted of a 40 ml vial filled with deionized water for VOC analysis. The results of these analyses were used to check for "artificial" contamination during field handling, shipment, or laboratory handling.

4.8 Record Keeping

All field data was recorded in the field sampler's bound notebook. This data included: weather conditions, location of boring, depth of sample and the sequence in which the borings were taken. A chain of custody was implemented during sample collection.

4.9 Analytical Laboratory

All soil samples were submitted with chain of custody to the Laboratory. Samples were analyzed according to NYSDEC Contract Laboratory Protocol (CLP) procedures, however, CLP QA/QC follow-up documentation was not requested. Once the analytical data was returned from the laboratory, it was submitted for validation to Data Validation Services, Riparius, New York.

5.0 PROTOCOL FOR MONITORING WELL INSTALLATION

This protocol outlines procedures and equipment used in the drilling and installation of monitoring wells at Sunnyside Yard, Queens, New York. The monitoring wells were installed by Land, Air, Water Environmental Services, Center Moriches, New York, a New York State licensed driller using a hollow stem auger drilling rig.

Several proposed drilling locations were moved slightly due to obstructions, buried utilities and above ground railroad track locations.

5.1 Drilling Equipment Preparation

Prior to use, the drill rig, and all tools and accessories were thoroughly cleaned to remove all remnants of previous drilling operations (e.g., dirt, mud, dust and liquids). Cleaning of the drill rig included the wheels or tracks, undercarriage, chassis and cab. The cleaning procedure was as follows:

(a) remove all loose material and soil;
(b) rinse with tap water;
(c) steam clean; and
(d) air dry.

All downhole tools and sampling equipment, as well as tools which came into immediate contact with this equipment, were cleaned in the same manner as the drilling equipment. Split-barrel samplers, drill stems and all other downhole tools were free of grease, oil and other forms of contamination during the drilling and installation of the wells.

5.2 Drilling Equipment Cleaning Procedures

Following cursory cleaning of drill stems and downhole tools at the well (Section 4.2), the rear of the rig was cleaned of all loose material and soil. All contaminated clothing, gloves, boot covers and rags were containerized in on-site receptacles and disposed of properly.

Prior to drilling startup, an on-site area was designated for equipment cleanup. After preliminary cleaning between well sites was completed, drilling equipment such as drill stems, auger flights and other tools and equipment which came in contact with either soil or ground water was taken to the designated cleaning area. The cleanup procedure was as follows:

(a) Thorough wash with detergent and tap water utilizing a scrub brush;
(b) Rinse with tap water;
(c) Steam clean; and
(d) Air dry.

This cleanup was performed after each monitoring well had been installed and prior to movement of any equipment to the next well location.

Upon completion of the drilling program, contaminated soil from the drilling process was disposed of in accordance with applicable state and federal regulations.

5.3 Monitoring Well Installation

All monitoring wells were constructed in accordance with NYSDEC specifications. The 18 water-table monitoring wells were installed to an approximate depth of 15 feet below land surface with well screens set approximately two feet above the existing water table. The deeper formation monitoring well (MW-23) was installed to 36 feet below land surface.

All monitoring wells were constructed of 4-inch diameter 10 feet long, 20 slot flush threaded well screens and 4-inch diameter PVC casing. Stainless steel well screens were installed in the seven wells that penetrated separate phase petroleum and PVC well screens were installed in twelve wells. The wells were gravel packed with the gravel extending approximately one-half foot to two feet above the well screen depending on field conditions. The annular space above the gravel pack was filled with a layer of granular bentonite followed by a bentonite-based grout. An outer locking, steel protective casing was placed over the well casing and the remaining unfilled portion of the annulus filled with concrete.

Split-barrel soil samples were collected during drilling at continuous two-foot intervals above the water table and one sample was obtained five feet below the water table, where possible. While drilling the borehole for monitoring well MW-23, split-spoon samples were collected at continuous two-foot intervals above the water-table and every five feet thereafter. Split-spoon samples were examined for lithology, evidence of contamination (presence of oil, odor) and degree of saturation. In addition, each split-spoon was tested for the presence of VOCs using PID equipment. All PID readings were recorded on the geologic logs. Finally, all split-spoon samples were retained onsite in masonry jars for potential future use.

All wells were developed after installation. The wells were developed until the discharged water was clean (i.e., turbidity was less than or equal to 50 NTUs) or for a minimum of one hour of continuous development. Wells were developed by mechanical surging and pumping. Since the source of contamination is defined, well development water generated

outside of Area 1 was allowed to infiltrate into the ground, and contained in recharge pits to preclude run-off from the site. Development water from monitoring wells in Area 1 that contained separate phase petroleum was containerized and properly disposed of.

5.4 Record Keeping

All field data was recorded by the on-site Geologist/Hydrogeologist in a bound notebook. This data included weather conditions, well location, depth of well, sequence in which the wells were completed and well completion data. A drill log was completed for each well by the on-site Geologist/Hydrogeologist. The compiled logs were based on drill cuttings, rig reaction and soil samples.

Data compiled in the logs also included: soil color and type, approximate grain size, physical characteristics (e.g., moisture, visible contamination), horizon depth and thickness, depth to ground water and PID readings.

6.0 PROTOCOL FOR GROUND-WATER SAMPLE COLLECTION

This protocol outlines procedures and equipment for the collection of representative ground-water samples from monitoring wells at the Sunnyside Yard, Queens, New York. After collection these samples were submitted to the Laboratory for analyses including volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), base/neutrals (BNs), total petroleum hydrocarbon concentrations (PHCs), and the complete target compound list (TCL).

6.1 Equipment Cleaning Procedures

The following cleaning procedures applied for equipment used for the collection of ground-water samples.

6.1.1 Purging Equipment

Submersible pumps, discharge hoses, and cables were cleaned prior to initial use and after pumping each well in the following manner:

(a) external surfaces were brushed free of all loose material, washed with detergent solution and rinsed with clean tap water;

(b) internal surfaces were cleaned by placing the pump in a clean drum containing detergent solution followed by clean tap water and allowing the pump to operate; and

(c) pump, discharge hose and cable were wrapped in plastic sheeting for transportation and storage.

6.1.2 Bailers

Bailers were cleaned prior to initial use and after each subsequent use in the following manner:

(a) detergent wash;

(b) tap water rinse;

(c) distilled water rinse ;

(d) pesticide-grade methanol rinse, or in Area 1, pesticide-grade hexane rinse;

(e) distilled water rinse;

(f) air dry; and

(g) wrap in aluminum foil for transportation and storage.

6.2 Sample Collection and Handling

Sampling was performed by a two-person team with experience in environmental sampling. The senior member of the team (sample coordinator) was responsible for complete documentation of sampling which was kept in a bound field notebook appropriately dated and signed. The sampling team was responsible for the preservation and chain of custody records for all samples until they were transported to the laboratory for analysis.

Monitoring wells were unlocked immediately prior to initiating sampling procedures. All wells were re-secured when sampling was completed.

The diameter, water level and total depth of each well was measured to calculate the volume of the water column. Measurements were made to the nearest 0.01 foot with either a steel tape or, in Area 1, an ORS Interface Probe. The tape or Interface Probe was cleaned prior to initial use by the following procedure:

(a) wipe with a pesticide-grade methanol, or in Area 1, a pesticide-grade hexane soaked paper towel;

(b) air dry; and

(c) wrap in foil for transportation and storage.

After each use, the tape or Interface Probe was wiped dry and cleaned in accordance with a, b and c above.

Prior to sampling, the volume of water in each well was calculated. All wells were purged before any sampling took place. The amount of water removed was determined by the condition of the well and the ability of the aquifer to transmit water. In no case was a well sampled unless all water standing in the well casing had been replaced by fresh ground water from the aquifer. Purging continued until 3 volumes of water had been removed from each well or until the well was bailed dry. All wells were purged and allowed to recover prior to the collection of ground-water samples as approved by the NYSDEC Project Engineer, Mr. James Quinn.

Ground-water samples were collected using bottom loading Teflon™ bailers. Bailers were cleaned in accordance with bailer cleaning procedures. Clean polypropylene cord was used to lower bailers into the wells. New cord and new disposable gloves were used for each well. Disposable gloves were worn when handling bailers and cord. Care was taken to prevent bailers or cord from coming into contact with any contaminants.

One bailer volume from each well was discarded prior to collecting a sample. Bailers were lowered gently into the wells to minimize agitation of the ground water.

Ground-water samples were poured from the bailers directly into bottles previously prepared. Pouring was accomplished in a manner that minimized agitation of samples.

All samples were placed on ice and protected from light immediately after collection and during transportation to the Laboratory.

The following holding times, containers and preservatives were used:

PARAMETER	CONTAINER(1)	PRESERVATIVE(2)	MAXIMUM HOLDING TIME
Petroleum Hydrocarbon Compounds	Glass with foil or teflon lined lid	Cool to 4°C	28 days
Polychlorinated Biphenyls (PCBs)	Glass with teflon lined lid	Cool to 4°C	5 days until extraction, 40 days after extraction
Volatile Organic Compounds	40 ml septum vial with/teflon container, must not contain air bubbles	Cool to 4°C	7 days
Base/Neutrals	Glass with teflon lined lid	Cool to 4°C	5 days until extraction, 40 days after extraction
Pesticides	Glass with teflon lined lid	Cool to 4°C	5 days until extraction, 40 days after extraction
Total Metals	Plastic	HNO_3 to pH <3, Cool to 4°C	6 months

(1) All samples collected with a 1 inch air space in container, with the exception of Volatile Organics.

(2) All samples were stored at 4°C from time of collection until arrival at the Laboratory.

6.3 Quality Assurance/Quality Control

Field sample collection procedures were monitored through the use of field replicates, trip blanks and field blanks.

6.3.1 Field Replicates

A total of 4 blind field replicates were collected and analyzed as a check on the reproducibility of results within the Laboratory.

6.3.2 Trip Blank

Trip blanks were prepared by the Laboratory and travel unopened with the sample containers. Trip blanks are opened at the Laboratory and tested along with field samples

for the constituents of interest to detect if contamination has occurred during field handling, shipment, or in the Laboratory. A minimum of one trip blank accompanied each shipment of ground-water samples delivered to the Laboratory.

6.3.3 Field Blank

Prior to any ground-water sampling, a field blank was collected. After cleaning the bailer, the blank was collected from a final rise of laboratory supplied deionized/distilled water. Analysis of this field blank for the constituents of interest verified the efficiency of the sampling procedure and decontamination process. Field blanks were collected in the same manner from soil sampling equipment also.

6.4 Record Keeping

The following records were maintained by the field sampler during the sampling program.

6.4.1 Field Data

All field data was recorded in the field sampler's bound notebook. This data included: weather conditions, volume of water removed from the well, static water depth prior to sampling, and the sequence in which the samples were collected.

6.4.2 Chain of Custody

A chain of custody form was completed following the sample collection.

7.0 SLUG TESTS

Each of the seven slug tests were implemented using the following steps:

1. The monitoring well designation was identified;
2. The protective locking steel cap was removed, and the PVC well cap was removed, wiped clean, and placed on a clean, plastic sheet;
3. the depth to water in the monitoring well was measured with a steel tape and chalk;
4. The monitoring well was sounded (i.e., the total depth of the well was measured) with a steel tape and compared to the as-built well diagram;
5. The depth to water was subtracted from the sounded depth to calculate the length of the water column in the monitoring well;

6. A Hermit 2000 data logger was programmed to record water-level measurements;
7. A 10 psi transducer was attached to the data logger, lowered into the monitoring well, set near the bottom and secured. The water level was recorded in data logger;
8. A 3-inch diameter, 3-foot long PVC, bottom-filling bailer (slug) was lowered into the monitoring well and held below the top of the water level until the water level stabilized (i.e., reached the pretest level);
9. The slug was instantaneously (i.e., as quickly as possible) removed from the monitoring well to start the slug test;
10. The water levels in the monitoring well were monitored and recorded by the data logger until water levels stabilized again (i.e., returned to static conditions) and the slug test ended;
11. Steps 8 through 10 were repeated (second test on each well);
12. The PVC well cap was replaced and the monitoring well secured with the locking cap; and
13. All equipment that entered the well (i.e., the steel tape, transducer, and bailer) were cleaned with a non-phosphate, laboratory-grade detergent (MICRO™) and distilled water solution, rinsed with distilled water, and wiped with clean paper towels.

All well identifier, sounding, and depth to water data were recorded in the field notebook.

8.0 PROTOCOL FOR VOLATILE ORGANIC SCREENING OF SITE USING VAPOR PROBES

1. A pre-cleaned 1/4-inch slide hammer with hardened tip was driven into the top of the desired sample zone.
2. A pre-cleaned 1/4-inch diameter stainless steel probe with perforated section was placed into the hole.
3. The perforated section of probe was driven six inches into the undisturbed soil to be sampled.
4. The probe was capped with 1/4-inch surgical grade rubber tubing.

5. A vacuum pump was attached to the tubing and evacuated three to five probe volumes of soil gas.
6. The tip of the PID was placed into the tubing, creating an air-tight seal.
7. The peak and average readings on the PID was recorded in the field book and on the base map.

APPENDIX B

Well Construction Logs

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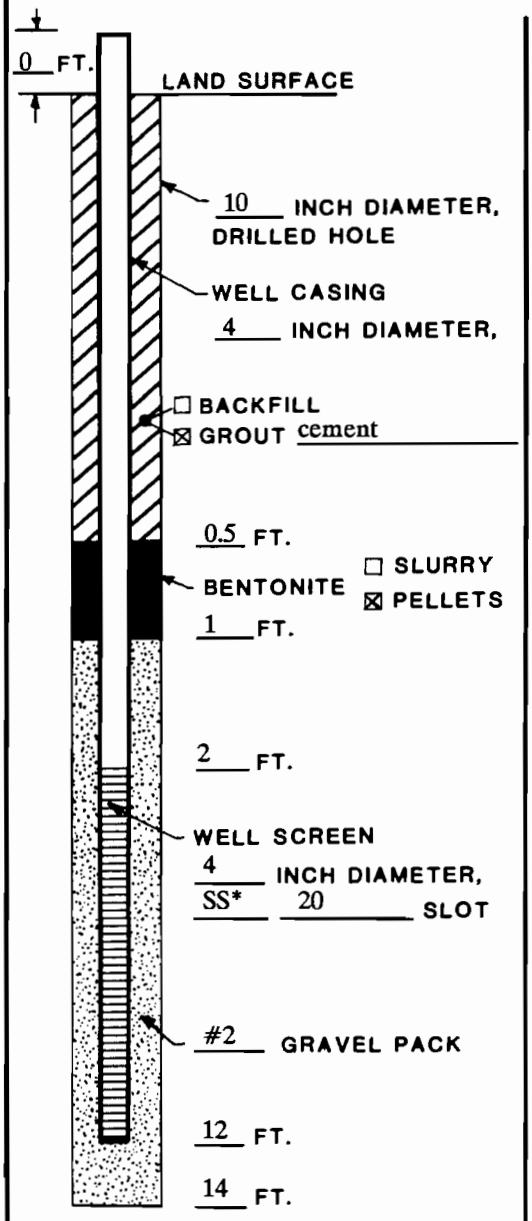
Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-13 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/06/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump.

10 gpm for 1 hour, 12/18/90.

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 600 GALLONS

STATIC DEPTH TO WATER 4 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS *SS - stainless steel continuous slot.

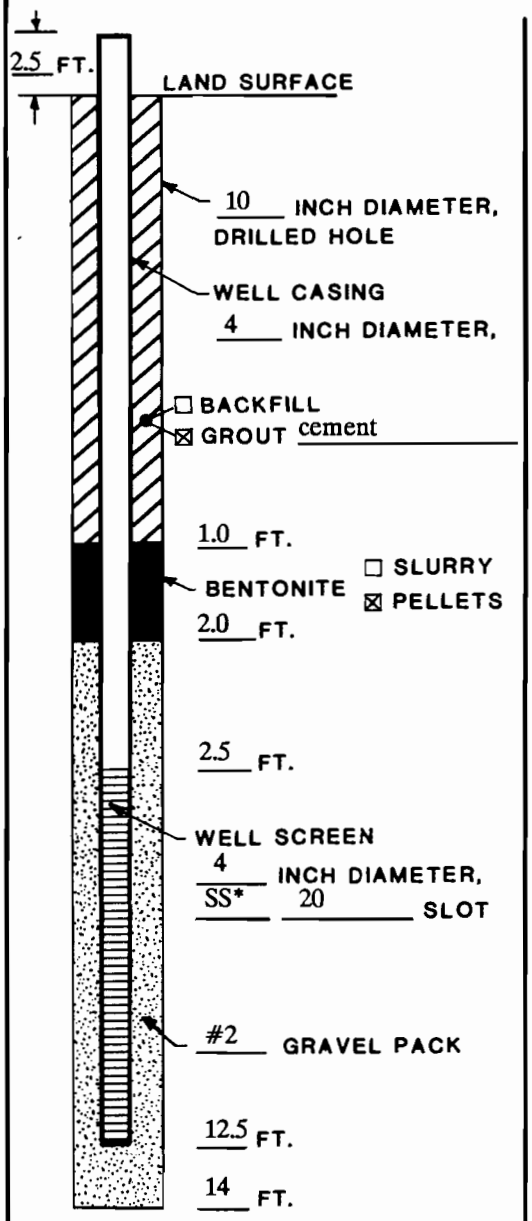
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-16 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/07/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Bailed; pump & surge - submersible pump, 12/17/90, 12/19/90.

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 50 GALLONS

STATIC DEPTH TO WATER 7 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS *SS - stainless steel continuous slot.

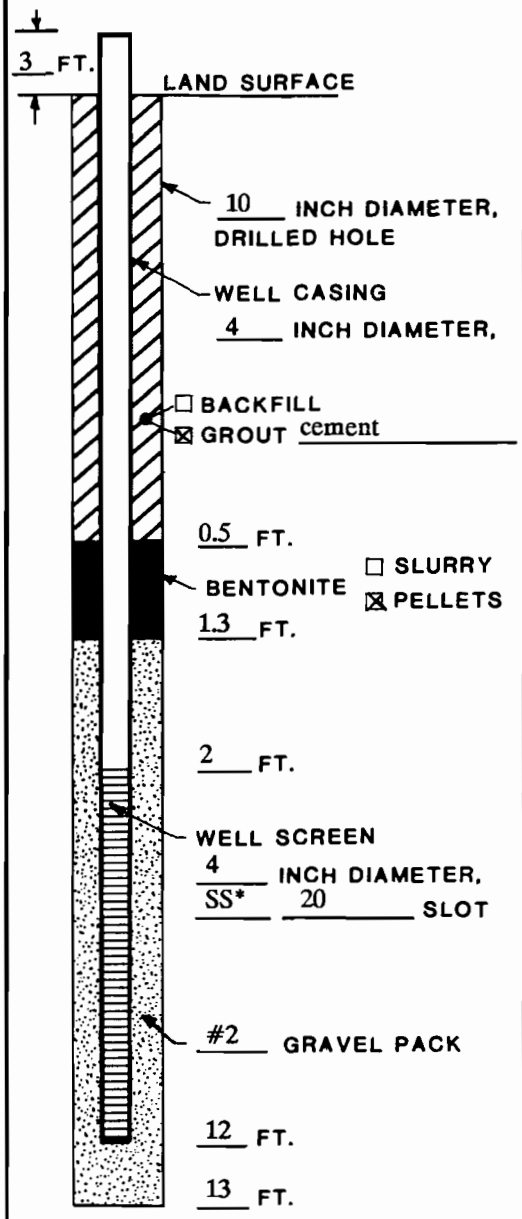
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-17 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/08/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Service

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 7 gpm for 1 hour

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 420 GALLONS

STATIC DEPTH TO WATER 7 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS *SS - stainless steel continuous slot

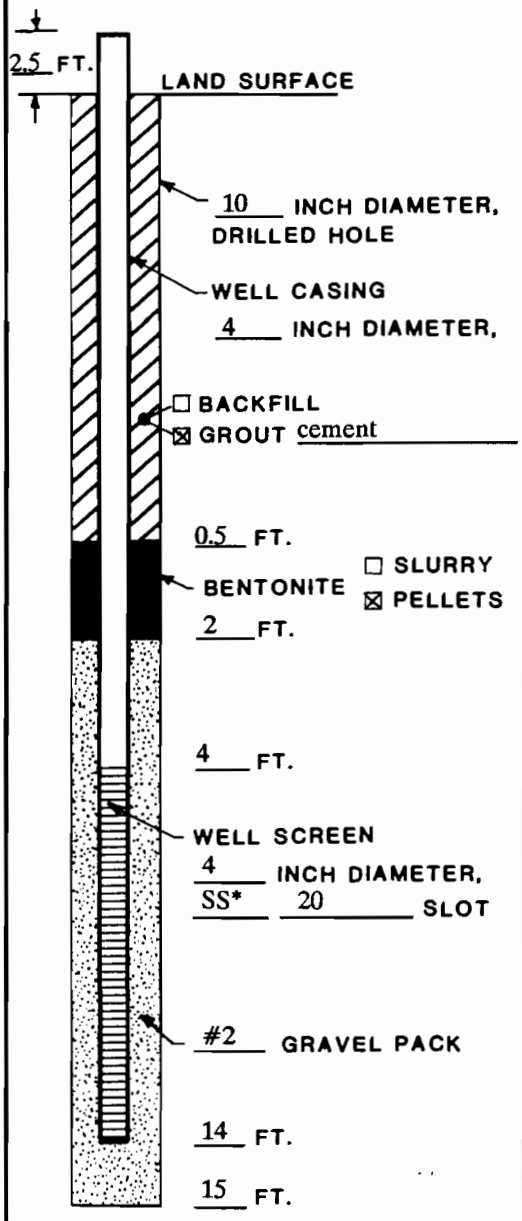
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-19 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

☐ ESTIMATED

INSTALLATION DATE(S) 12/20/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Bailed; pump & surge - submersible pump, 12/20/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 25 GALLONS

STATIC DEPTH TO WATER 8 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS *SS - stainless steel continuous slot.

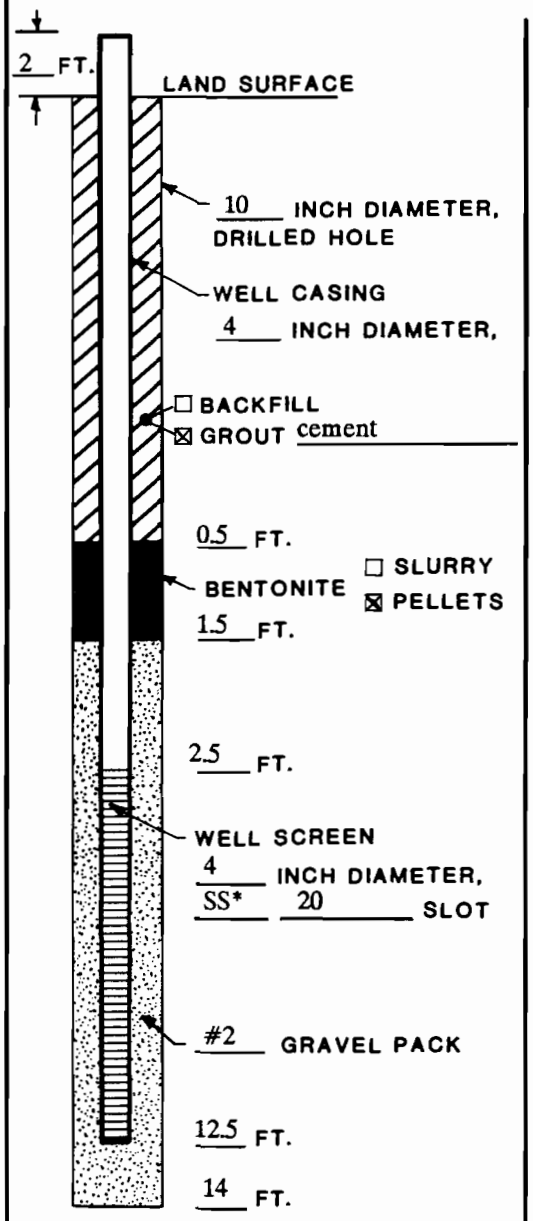
HYDROGEOLOGIST J. Duminuco

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-20 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 12/11/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 12/17/90

FLUID LOSS DURING DRILLING _____ GALLONS

WATER REMOVED DURING DEVELOPMENT 60 GALLONS

STATIC DEPTH TO WATER 4.5 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS *SS - stainless continuous slot

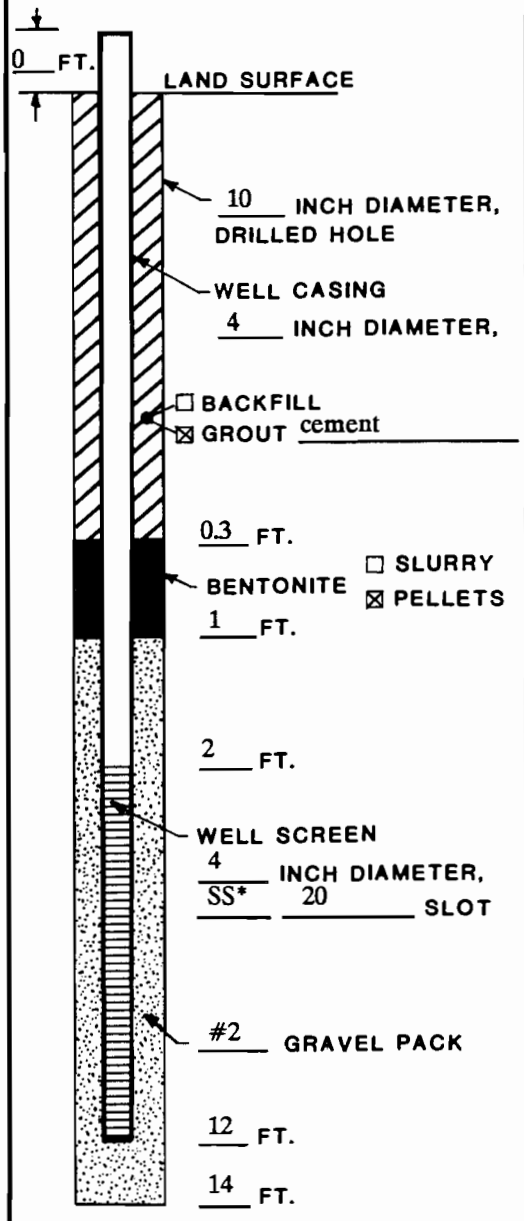
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-21 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 12/06/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)
Pump & surge - submersible pumps, 12/13/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 25 GALLONS

STATIC DEPTH TO WATER 3 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS *SS - stainless steel continuous slot

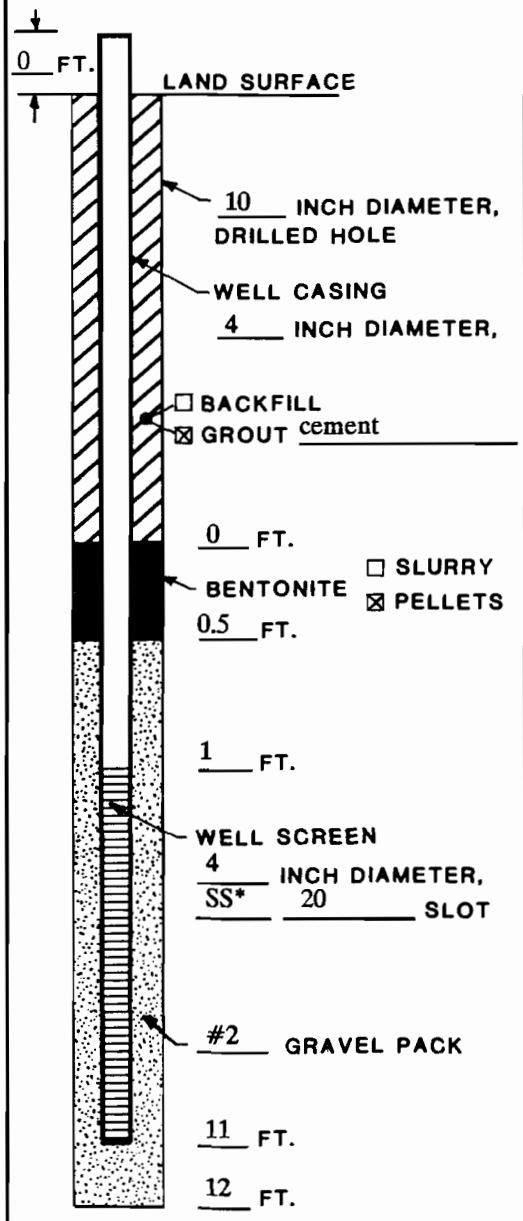
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-22 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 10/20/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 8-9 gpm for 1 hour, 12/13/90

FLUID LOSS DURING DRILLING _____ GALLONS

WATER REMOVED DURING DEVELOPMENT 500 GALLONS

STATIC DEPTH TO WATER 1.5 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS Flush mount curb box installed 0.5 ft. above grade.
*SS-stainless steel continuous slot.

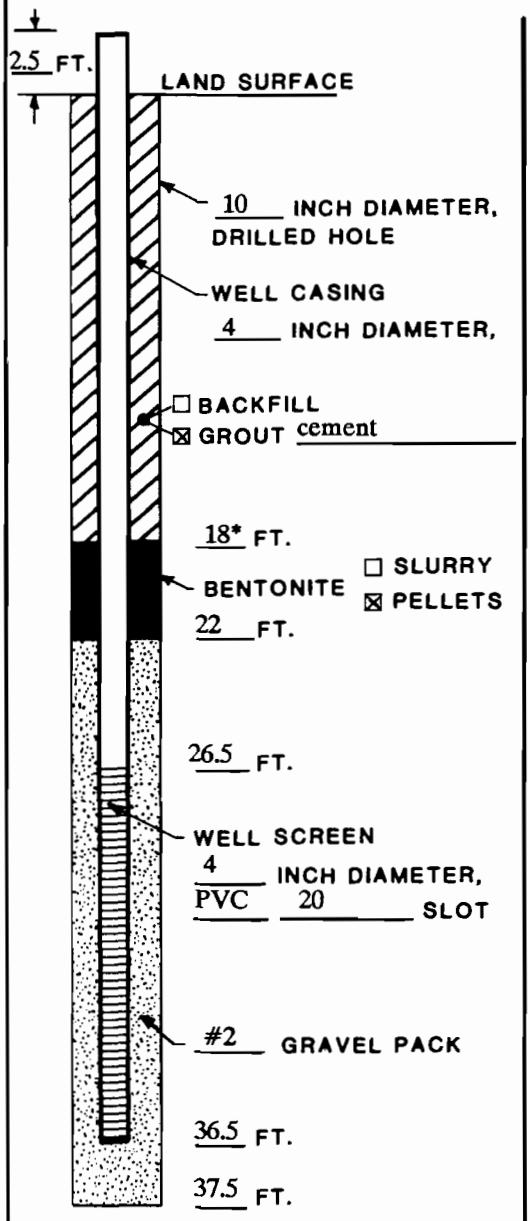
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-23 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 12/10/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 6-7 gmp for 1 hour, 12/14/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 400 GALLONS

STATIC DEPTH TO WATER 5 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring Well.

REMARKS Well completed on third attempt.
* 22 ft to 18 ft - Bentonite and formation collapse.

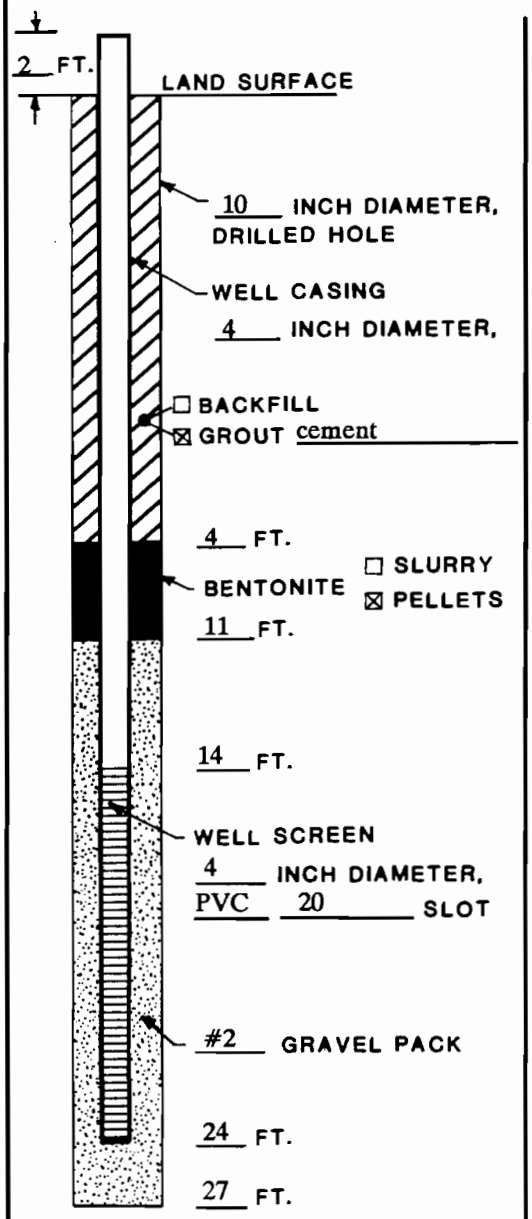
HYDROGEOLOGIST V. Singh

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-24 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/28/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 18-20 gpm for 1 hour, 12/12/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 1100-1200 GALLONS

STATIC DEPTH TO WATER 18 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS

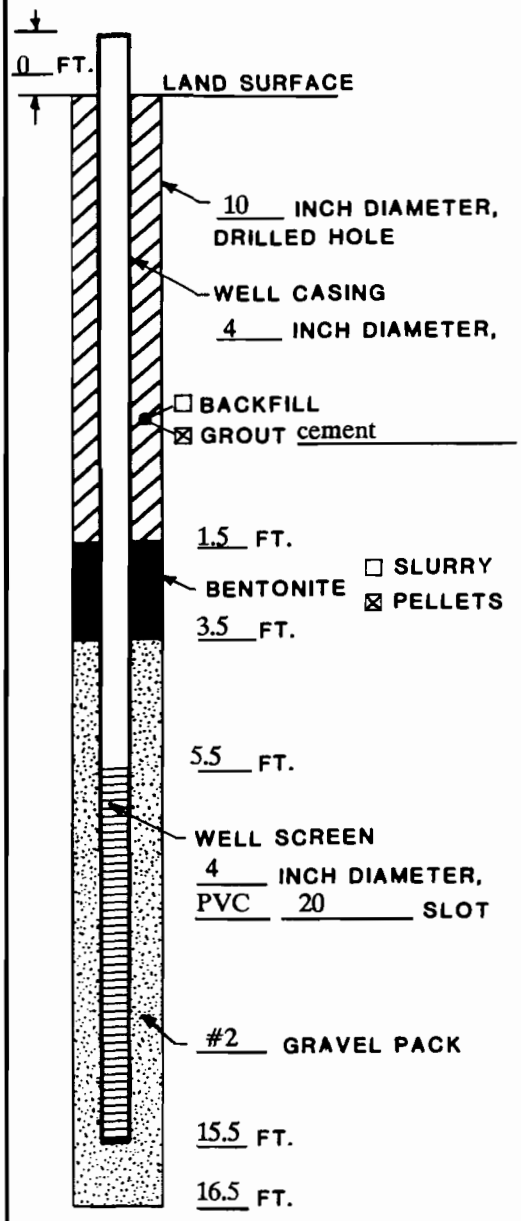
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-25 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/17/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 18-20 gpm for 1 hour, 12/11/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 1100-1200 GALLONS

STATIC DEPTH TO WATER 8 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS

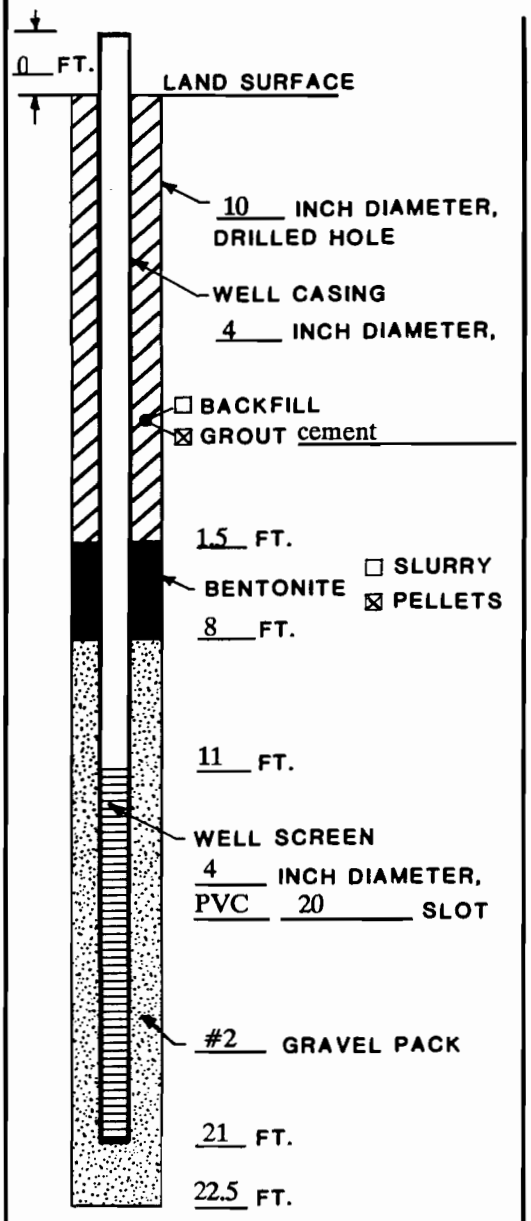
HYDROGEOLOGIST B. Woods

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-26 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 12/05/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 18-20 gpm for 1 hour, 12/12/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 1100-1200 GALLONS

STATIC DEPTH TO WATER 13 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring.

REMARKS

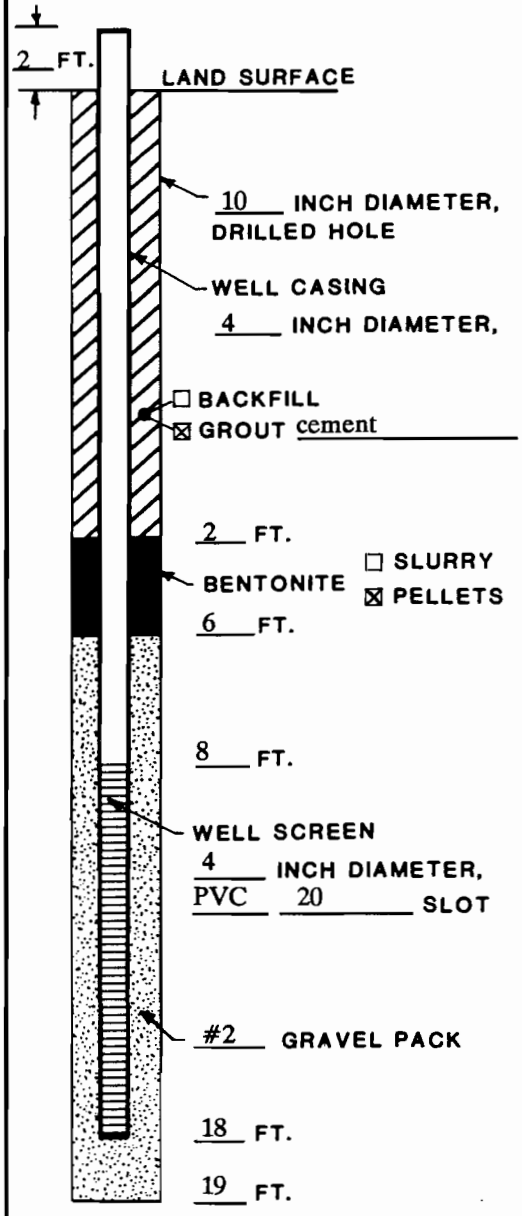
HYDROGEOLOGIST B. Woods

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-27 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 12/01/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 8-9 gpm for 1 hour,

12/05/90

FLUID LOSS DURING DRILLING _____ GALLONS

WATER REMOVED DURING DEVELOPMENT 500 GALLONS

STATIC DEPTH TO WATER 11 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS

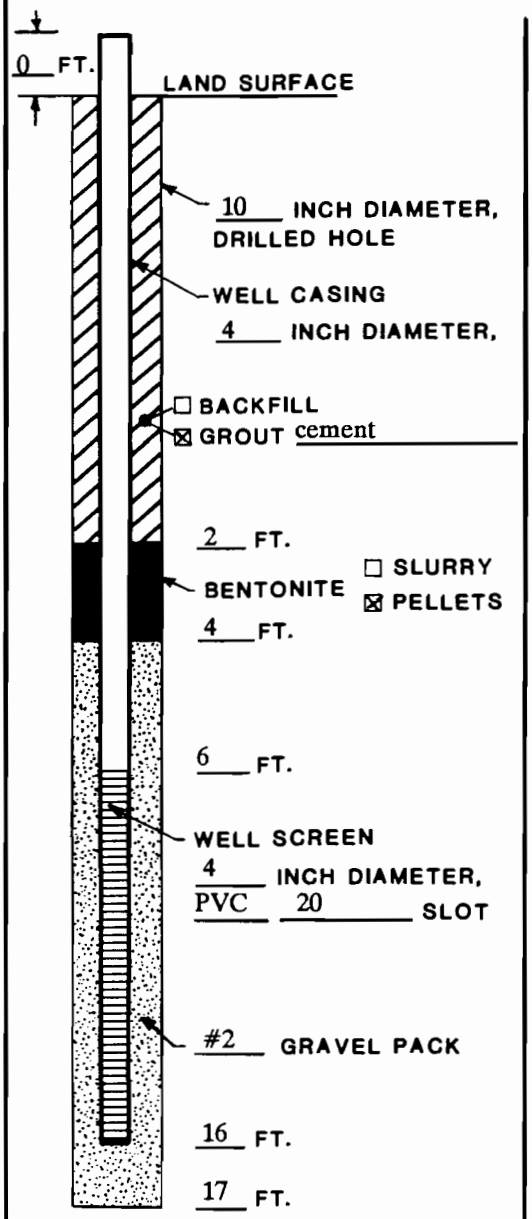
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-28 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/09/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 12/11/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 50 GALLONS

STATIC DEPTH TO WATER 7.5 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS 6" clay layer encountered at 14 ft, sand, silt and clay below.

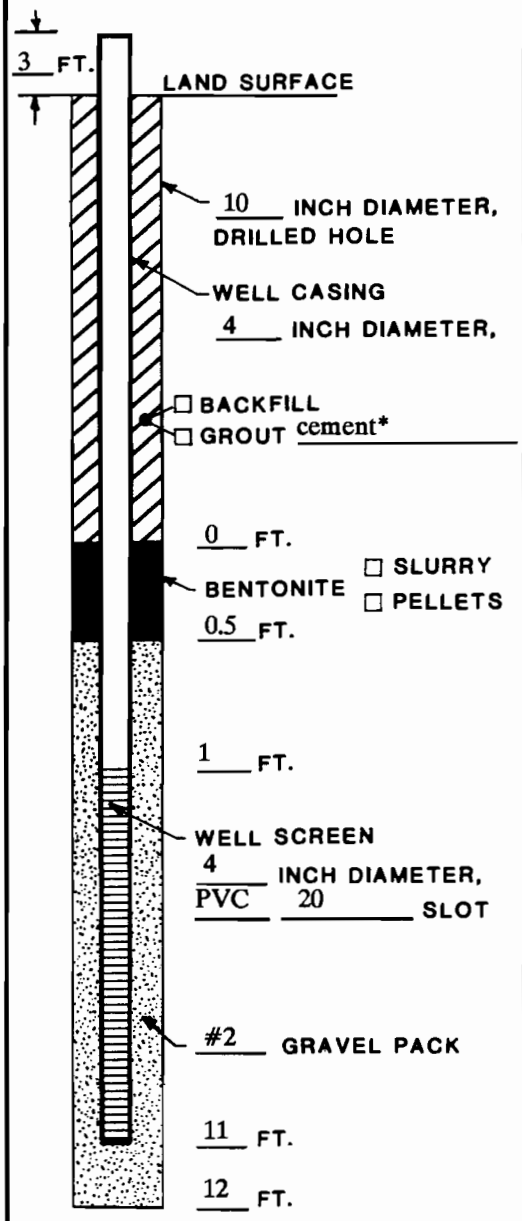
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-29 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/17/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 12/13/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 100 GALLONS

STATIC DEPTH TO WATER 4 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS *Cement grout around protective steel casing.

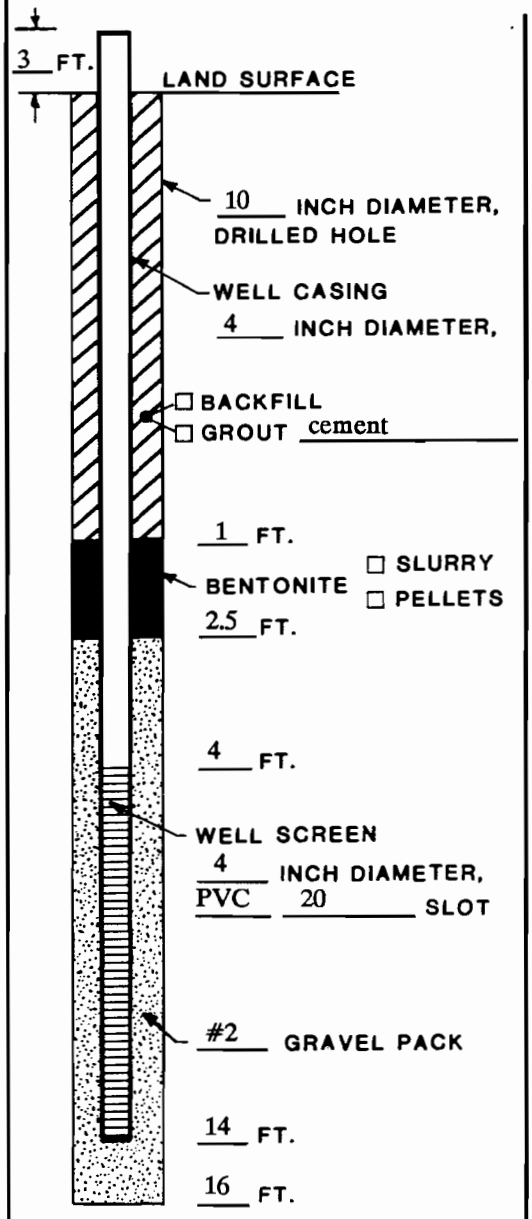
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-30 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/30/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 12/05/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 25 GALLONS

STATIC DEPTH TO WATER 7.5 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS Screen set in meadow mat with organic silty clay.

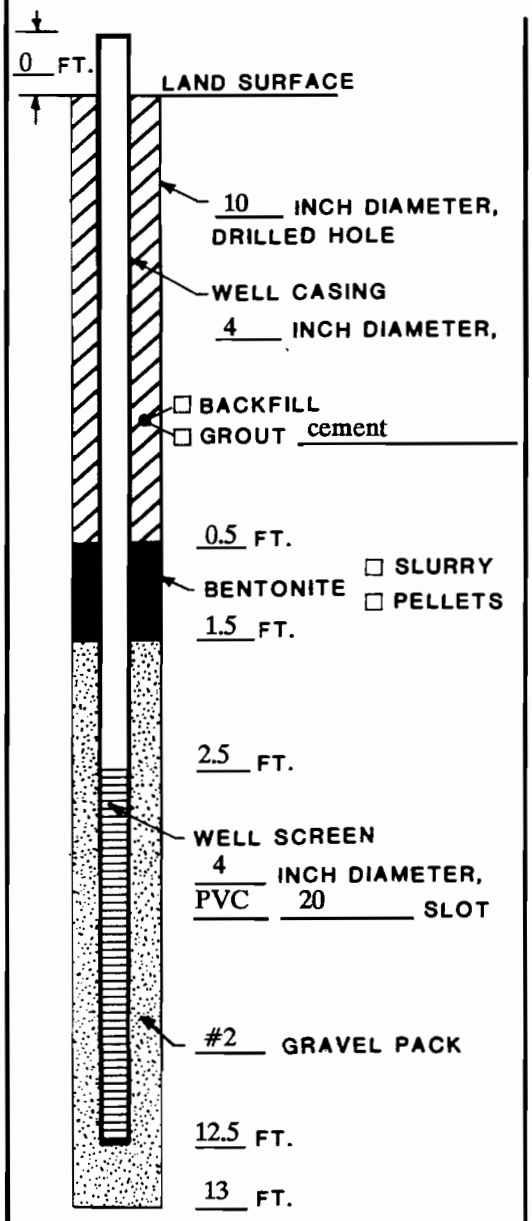
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-31 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/08/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 18-20 gpm for 1 hour, 12/11/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 1100-1200 GALLONS

STATIC DEPTH TO WATER 4 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS

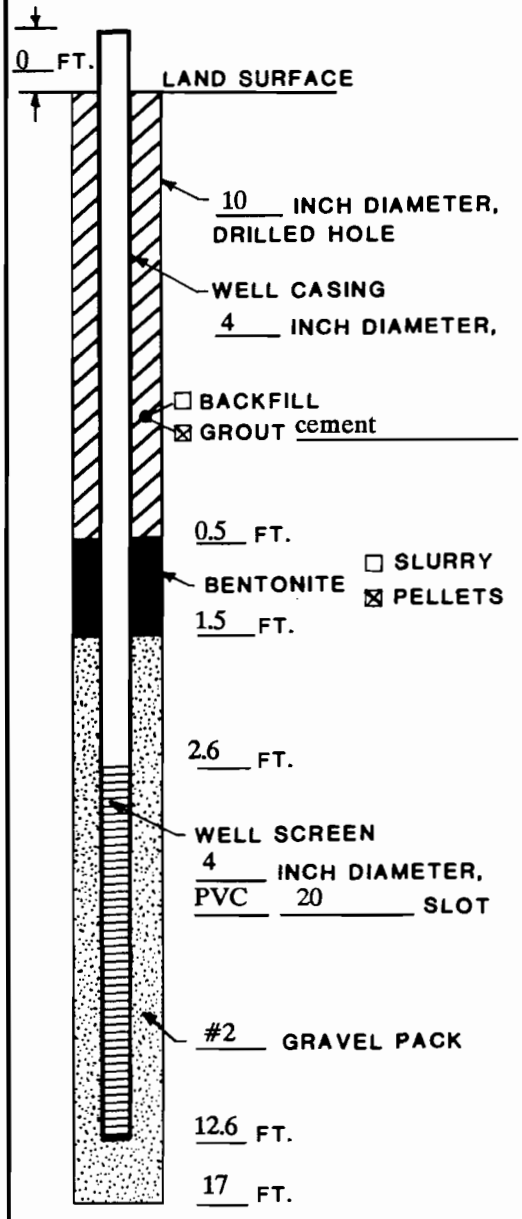
HYDROGEOLOGIST H. Gregory

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-32 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 10/04/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 12/05/90.

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 25 GALLONS

STATIC DEPTH TO WATER 4.5 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS

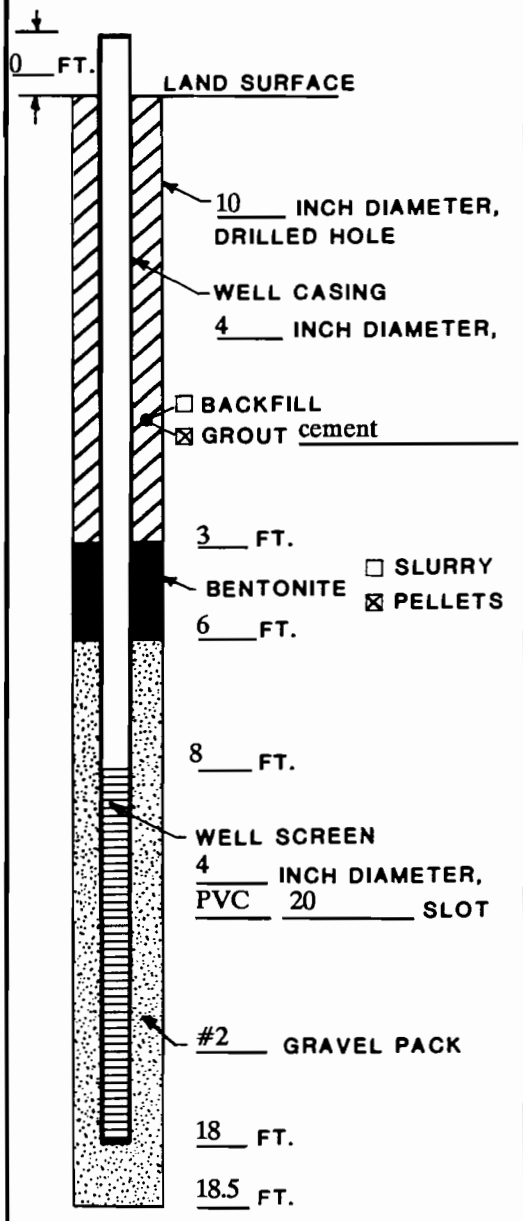
HYDROGEOLOGIST V. Singh

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-33 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/15/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water, Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 18-20 gpm for 1 hour 12/05/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 1100-1200 GALLONS

STATIC DEPTH TO WATER 10 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring Well

REMARKS

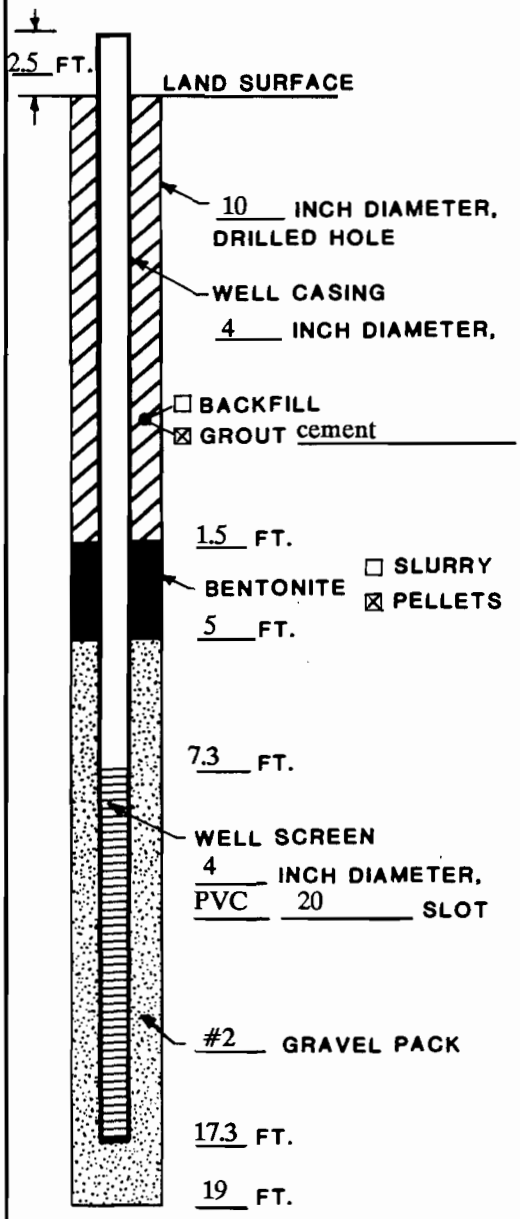
HYDROGEOLOGIST V. Singh

ROUX

Consulting Ground-Water Geologists

ROUX ASSOCIATES INC

MONITORING WELL CONSTRUCTION LOG



NOTE:
ALL DEPTHS IN FEET
BELOW LAND SURFACE

PROJECT NAME Amtrak/Sunnyside Yard NUMBER 05509Y

WELL NO. MW-34 PERMIT NO. _____

TOWN/CITY Long Island City

COUNTY Queens STATE New York

LAND-SURFACE ELEVATION

AND DATUM _____ FEET ☐ SURVEYED

_____ ☐ ESTIMATED

INSTALLATION DATE(S) 11/29/90

DRILLING METHOD Hollow Stem Auger

DRILLING CONTRACTOR Land, Air, Water Enviro. Services

DRILLING FLUID None

DEVELOPMENT TECHNIQUE(S) AND DATE(S)

Pump & surge - submersible pump, 12/05/90

FLUID LOSS DURING DRILLING None GALLONS

WATER REMOVED DURING DEVELOPMENT 15 GALLONS

STATIC DEPTH TO WATER 14.5 FEET BELOW M.P.

PUMPING DEPTH TO WATER _____ FEET BELOW M.P.

PUMPING DURATION _____ HOURS

YIELD _____ GPM _____ DATE _____

SPECIFIC CAPACITY _____ GPM/FT.

WELL PURPOSE Monitoring

REMARKS Screen set 3 ft above proposed depth to avoid silty clay layers below 17 ft depth.

HYDROGEOLOGIST H. Gregory/V.Singh

APPENDIX C

Soil Boring Logs

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/26/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By H. Gregory
Well No. S-1
Location
M.P. Elevation
Drilling Started 09:50 Ended 11:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 8.0
Final Depth (ft.) 10.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
24			0-2'	Grab Sample	SAND and GRAVEL	0-2–	Brown, medium, SAND & GRAVEL (Railroad bed fill).
35			2-3'	Grab Sample	------2 ft------ SILT ------3 ft------	2-3–	Green to gray, clayey SILT, some fine sand wet. (Water seeping into hole from above clay) Water Table at 3 ft.
					SAND		
12		1.0'	8-10'	13, 10, 13, 35		8-10–	Gray stained, fine to medium, SAND and fine gravel. Brown, fine, SAND, some silt. Tip of spoon blocked with gravel.
					------10 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/24/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By B. Woods
Well No. S-2
Location
M.P. Elevation
Drilling Started 15:20 Ended 16:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/"6	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND and GRAVEL	0-2	Black to dark brown, medium, SAND and GRAVEL.
5.7			2-4'	Grab Sample	------2 ft------ CLAY	2-4	Gray to green, CLAY with gray medium to fine Sand.
					------4 ft------ SAND		Water Table at 4 ft.
23		1.6'	9-11'			9-11	Brown to Dark brown, fine, SAND, some silt.
					------11 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/10/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By V. Singh
Well No. S-3
Location
M.P. Elevation
Drilling Started 11:10 Ended 12:20
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
9			0-2'	Grab Sample		0-2–	Dark brown, medium SAND, little gravel.
6			2-3'	Grab Sample		2-3–	Brown to black, medium SAND; wet.
0		1.1'	3-5'	2,2,1,3	SAND	3-5–	Brown to black, fine SAND, little silt; Wet. Water Table at 3 ft.
0		1.0'	9-11'	7,7,17,21		9-11–	Grey to black fine to medium SAND. Wet.
					------11 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/10/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-4
Location
M.P. Elevation
Drilling Started 10:00 Ended 11:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.)
Final Depth (ft.)
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
6			0-2'	Grab Sample		0-2	Dark brown, fine to medium SAND, little gravel, wood (Railroad ties).
6			2-3'	Grab Sample	SAND	2-3	Brown, fine to medium SAND, trace gravel.
0		1.6'	3-5'	3,5,11,11		3-5	Brown, fine to coarse SAND, with some gray, silty clay at bottom 0.4' of spoon. Water Table at 4 ft.
27		.8'	9-11'	7,8,11,15		9-11	Dark brown to brown, fine to medium SAND, little silt; Wet.
					-------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/20/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-5
Location
M.P. Elevation
Drilling Started 13:50 Ended 14:40
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 8.0
Final Depth (ft.) 9.8
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
1.0			0-2'	Grab Sample		0-2	Dark Brown, medium to fine SAND, little medium gravel. Turns to Dark Gray, medium, SAND at 1.7 ft.
27			2-4'	Grab Sample		2-4	Gray very fine SAND, very uniform, little silt. Hydrocarbon odor.
					SAND		Water Table at 4 ft.
3.0		0.8'	9-9.8'	25, 100/2	------9.8 ft.------ Bottom of boring	9-9.8	Dark gray, fine to medium, SAND; Wet. Strong PHC odor, rainbow sheen on water.
					(Refusal)		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/11/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-6
Location
M.P. Elevation
Drilling Started 12:15 Ended 13:50
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 10.7
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status Soil Boring

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	0-1.5': Black stained, fine to medium SAND, cinders, gravel (Railroad bed). 1.5-2.0': Brown, medium to fine, SAND, trace gravel.
0			2-4'	Grab Sample		2-4	Brown to light brown, medium to fine SAND, trace gravel.
0		1.5'	4-6'	N/R		4-6	Brown, medium to fine SAND, with small discrete lenses of brown, silty-sand and fine sand.
0		1.2'	6-8'	N/R	SAND	6-8	Brown, fine SAND, well sorted.
0		0.6'	8-9'	N/R		8-9	Brown, fine, SAND well sorted, some brown, silt, moist.
0		0.6'	10-10.7'	N/R	-----10.7 ft.----- Bottom of boring	10.7	Brown, fine SAND, trace silt and gravel, wet. Water Table at 10 ft.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/25/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-8
Location
M.P. Elevation
Drilling Started 10:35 Ended 12:35
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 6.2
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status Soil Boring

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND	0-2–	Brown, fine to medium SAND, trace gravel (Railroad bed fill). Water Table at 2 ft.
51		1.0'	5-6.2'	N/R	------6 ft.------ Bottom of boring (Refusal)	5-6.2–	Brown, medium SAND, stained grey to black, wet

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/10/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-9
Location
M.P. Elevation
Drilling Started 13:00 Ended 16:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 8.0
Final Depth (ft.) 4.5
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status Soil Boring

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
135			0-2'	Grab Sample		0-2–	Dark brown, fine to medium SAND, trace gravel.
					SAND		
170			2-3'	Grab Sample		2-3–	Dark brown, fine to medium SAND, trace gravel. Water Table at 2.5'.
50		1'	3-4.5'	1,1,1,50/0		3-4.5–	Brown to black, fine to medium SAND. Petroleum hydrocarbon staining.
					-----4.5 ft.----- Bottom of boring (Refusal)		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/16/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-10
Location
M.P. Elevation
Drilling Started 13:55 Ended 14:20
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status Soil Boring

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND	0-2–	Brown, coarse SAND, some cobbles.
0			2-4'	Grab Sample		2-4–	Brown, coarse SAND, moist.
0		1.1'	4-6'	3,4,4,7		4-6–	Gray to brown, medium to coarse SAND. Water Table at 4.5 ft.
12.4		1.1'	9-11'	8, 6, 9, 10		9-11–	Brown, coarse SAND. Blackish gray, medium to coarse SAND. Wet, oil sheen.
					------11 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/11/90
Project Sunnyside Yard
Client AMTRAK
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Logged By Brian Woods
Well No. S-16
Location
M.P. Elevation
Drilling Started 10:15 Ended 11:40
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 20.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND	0-2	Brown, fine to medium SAND, trace gravel.
0			2-4'	Grab sample		2-4	Brown, fine to medium SAND, trace gravel.
0		1.1'	4-6'			4-6	Brown, medium SAND, trace gravel and brick fragments.
0		0.9'	6-8'			6-8	Brown, medium to coarse SAND.
0		1.0'	8-10'			8-10	Brown, medium SAND, trace gravel.
0		0.8'	10-12'			10-12	Brown, fine to medium SAND.
						11	Water table at 11 ft.
0		1.1'	12-14'			12-14	Brown, medium SAND.
0		1.1'	18-20'		Bottom of boring ------20'------	18-20	Brown, coarse to medium SAND, wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/19/90
Project Sunnyside Yard
Client AMTRAK
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Logged By Harry Gregory
Well No. S-17
Location
M.P. Elevation
Drilling Started 10:45 Ended 11:30
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 2.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status Soil Boring

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
1.5			0-2'	Grab Sample	SAND and SILT	0-2–	Dark brown, fine to medium, SAND and SILT, some organic matter.
					------2'------	2–	Wet at 2 ft.
					Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/4/90
Project Sunnyside Yard
Client AMTRAK
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Logged By Brian Woods
Well No. S-19
Location
M.P. Elevation
Drilling Started 13:40 Ended 16:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 19.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status Soil Boring

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND & GRAVEL	0-2	Brown medium to fine, SAND, and coarse gravel (Railroad Bed Fill).
0			2-4	Grab Sample	-------2 ft-------	2-4	Light brown, fine to medium, SAND, some gravel.
0		1.4'	3-5'	N/R		3-5	Brown, medium to fine, SAND, trace gravel
0		0.3'	5-7'	N/R		5-7	Brown, medium to fine, SAND, trace gravel
0		0.6'	7-8.25'	N/R	SAND	7 - 8.25	Brown to light brown, medium, SAND
0		1.4'	9-11'	N/R		9-11	Brown to light brown, medium, SAND, trace gravel.
0		0.8'	11-13'	N/R		11-13	Brown medium to fine SAND, wet. Water table at 12 ft.
0		0.4'	17-19'	N/R		17-19	Brown, medium, to coarse SAND. Wet
					------19 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/11/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods, V. Singh
Well No. S-20
Location
M.P. Elevation
Drilling Started 14:40 Ended 16:10
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 17.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	GRAVEL and SAND	0-2–	Dark brown to black railroad fill with GRAVEL and coarse SAND, stained black. Brown, fine to coarse, SAND and GRAVEL AT 1 FT.
0			2-4'	Grab sample	------4 ft------	2-4–	Brown, fine to coarse, SAND, some gravel.
0		1.0'	4-6'	N/R		4-6–	Brown, fine to medium, SAND, little coarse gravel.
0		2'	6-8'	N/R		6-8–	Fractured stones, almost no recovery.
0		0'	8-8.11"	N/R		8–	No recovery; spoon refusal at 8.9.
0		1.0'	10-12'	N/R		10-12–	Gray brown, fine to coarse, SAND, some unsorted gravel; wet. Water table at 10'ft.
0		1.2'	15-17'	N/R		15-17–	Gray brown, fine to coarse, SAND, some unsorted gravel; wet.
					------17 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/05/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-21
Location
M.P. Elevation
Drilling Started 15:00 Ended 15:50
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status Soil Boring

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Dark brown, medium SAND, medium gravel and dark fragments.
0			2-4'	Grab sample		2-4	Light brown, medium SAND with trace medium gravel and light brown sandy clay.
0		1.3'	4-6'	14, 11, 16, 15	SAND	4-6	Light brown, medium SAND, little gravel.
0		1.0'	6-8'	14, 11, 9, 8		6-8	Brown to light brown, medium to coarse SAND.
0		1.3'	8-10'	15, 11, 18, 24		8-10	Brown to light brown, medium to coarse SAND; wet. Water table at 9'.
0		2.0'	14-16'	15, 9, 8, 14		14-16	Brown to light brown, medium to coarse SAND, with reddish brown clay, little gravel.
					------16 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/17/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-22
Location
M.P. Elevation
Drilling Started 15:15 Ended 15:00
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 8.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND	0-2	Black to gray, medium SAND with slag fill.
0			2-4'	Grab sample		2-4	Brown to light brown medium SAND; little medium gravel.
0		1.1	4-6'	N/R		4-6	Black to brown medium SAND to fine SAND; little gravel; black slag at 0.9'.
0		0.5	6-8'	N/R		6-8	Black to brown medium to fine SAND; little gravel.
					------8 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/05/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-23
Location
M.P. Elevation
Drilling Started 11:30 Ended 13:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2–	Dark brown and black medium SAND some coarse gravel (rail road fill).
0			2-4'	Grab sample	SAND	2-4–	Dark brown and black medium SAND some coarse gravel (rail road fill).
0		1.1	4-6'	25, 56, 42, 56		4-6–	Top 0-0.2': Light brown medium coarse SAND, little gravel. Bottom 0.2-1.1': Brown medium coarse SAND, some gravel.
0		1.0	6-8'	30, 25, 32, 36		6-8–	Top 0-0.1': Dry, whitish brown, medium SAND Bottom 0.1-1.0': Brown, medium SAND
0		0.8	8-10'	16, 33, 37, 43		8-10–	Top 0-0.1': White to brown, medium SAND Bottom 0.1-0.8': Brown, coarse to medium SAND, some gravel. Water table at 10 ft.
0		0.6	14-16'	10, 11, 20, 22		14-16–	Brown, fine to medium SAND; Wet.
					------16 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/08/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-24
Location
M.P. Elevation
Drilling Started 12:00 Ended 16:35
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Top 0-0.6: Light brown, medium SAND Bottom 0.6-2': Black stained, medium SAND, some cobbles.
0			2-3'	Grab sample		2-3	Light brown, fine to medium SAND.
0		0.2	3-5'	16, 22, 15, 19	SAND	3-5	Fractured gravel.
0		0.8	5-7'	42, 35, 37, 47		5-7	Brown medium SAND, some fractured gravel.
0		0	7-8.5'	37, 48, 50, 50		7-8.5	N/R; no recovery; tip blocked with fractured cobble.
0		0.7	9-11'	11, 19, 17, 20		9-11	Brown, medium to coarse SAND; Wet at tip. Water table at 11'
0		1.4	14-16'	19, 22, 22, 14		14-16	Brown, fine to coarse SAND.
					------16 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/05/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory, V. Singh
Well No. S-25
Location
M.P. Elevation
Drilling Started 09:40 Ended 11:20
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 21.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
17			0-2'	Grab sample		0-2	Dark brown, fine to coarse SAND, trace silt and gravel.
30			2-4'	Grab sample		2-4	Brown, medium to coarse SAND, trace gravel.
12.6		1.0	4-6'	12, 14, 14, 16		4-6	Brown, fine to medium SAND.
13.8		1.3	6-8'	15, 24, 55, 55		6-8	Brown, fine SAND.
20		1.3	8-10'	10, 24, 21, 42	SAND	8-10	Brown, fine SAND.
34		1.4	10-12'	13, 14, 52, 30		10-12	Brown, fine SAND.
16.6		1.1	12-14'	14, 15, 13, 25		12-14	Brown, fine SAND, slightly wet at tip.
17.6		1.1	14-16'	N/R		14-16	Brown, fine to medium SAND, wet; Water table at 14 ft.
14.2		1.3	19-21'	10, 29, 20, 32	Bottom of boring 21 ft	19-21	Brown, fine SAND

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/17/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By B. Woods
Well No. S-26
Location
M.P. Elevation
Drilling Started 13:00 Ended ?
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 15.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Dark to light brown, medium to coarse SAND, some gravel
0			2-4'	Grab sample		2-4	Light brown, medium to coarse SAND, trace gravel.
0		0.8'	4-6'	N/R	SAND	4-6	Brown to tan, medium to coarse, SAND, trace gravel.
0			6-8'	N/R		6-8	Light brown, medium to fine, SAND; trace gravel; Wet. Water table at 7.5'
0			13-15'	N/R		13-15	Rusty brown, SAND; trace gravel; Wet.
					------15 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/02/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-27
Location
M.P. Elevation
Drilling Started 15:00 Ended 16:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0		1.15'	0.5-2.5'	5, 7, 11, 12		0.5-2.5	Brown, coarse SAND; trace fine gravel.
0		1.6'	2.5-4.5'	10, 15, 24 38	SAND	2.5-4.5	Brown, coarse SAND; trace fine gravel.
0		2.0'	4.5-6.5'	20, 27, 38, 34		4.5-6.5	Brown, medium to coarse SAND; trace gravel; Wet at tip.
							Water table at 7 ft.
0		1.2'	9-11'	5, 7, 9, 13		9-11	Brown, medium to coarse SAND; Wet.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/09/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-28
Location
M.P. Elevation
Drilling Started 13:50 Ended 15:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Dark brown to tan, fine to medium SAND, little gravel.
0			2-4'	Grab sample		2-4	Brown to tan, fine to medium SAND; trace gravel.
0		0.8'	4-6'	9, 16, 40, 50/3"	SAND	4-6	Top 0-0.4': Brown to tan medium SAND Middle 0.4-0.6': Dark brown, medium to coarse SAND Bottom 0.6-0.8': Brown to light brown, medium to coarse SAND, little gravel and fractured cobble.
0		1.1'	6-8'	16, 46, 32, 36		6-8	Top 0.2': Brown to tan, medium SAND 0.2-0.4': Brown medium SAND; little angular gravel. 0.4-0.9': Brown to tan, medium to coarse SAND; trace fine gravel. 0.9-1.1': Fractured cobble.
0		0.3'	8-10'	10, 12, 32, 27		8-10	Top 0.1': Fractured cobble 0.1-0.2': Brown, medium SAND 0.2-0.3': Red, fractured cobble.
0		0.1'	10-12'	9, 21, 37, 11		10-12	Fractured cobble blocking tip at spoon; spoon wet; insufficient recovery for sample. Water table at 10.5 ft.
0		1.2'	14-16'	11, 22, 27, 17		14-16	Top 1.1': Brown, fine to medium SAND Bottom 0.1': Gray to brown, fine to coarse SAND; poorly sorted; Wet.
					------16 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/03/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-29
Location
M.P. Elevation
Drilling Started 08:40 Ended 09:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0		1.5	0-2'	3, 4, 6, 14		0-2	Brown to black, medium to coarse SAND and gravel.
0		1.4	2.4'	18, 14, 13, 20		2-4	Brown, medium to coarse SAND; trace gravel.
0		1.1	4-6'	13, 27, 33, 30	SAND	4-6	Brown, medium to coarse SAND; Moist at tip.
							Water table at 6'
0		1.0	9-11'	8, 10, 15, 17		9-11	Brown, medium to coarse SAND; Wet.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/16/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-30
Location
M.P. Elevation
Drilling Started 10:00 Ended 12:40
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	ASPHALT	0-2	Top 0-0.6': Concrete and asphalt Bottom 0.6-2.0': Brown, medium to coarse SAND.
0			2-4'	Grab sample	SAND	2-4	Top to 1.2': Gray, fine to coarse SAND
0			4-6'	5, 3, 4, 2		4-6	Gray, coarse SAND; Wet at tip.
0		0.7	6-8'	1, 1, 3, 3		6-8	Water table at 5.5 ft. Gray to brown, medium to coarse SAND; Wet.
0		1.2	9-11'	6, 6, 9, 8		9-11	Gray to brown, fine to coarse SAND, Wet.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/17/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-31
Location
M.P. Elevation
Drilling Started 15:00 Ended 16:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 12.0
Final Depth (ft.) 7.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2–	Black stained, medium to coarse SAND; trace gravel.
0			2-3'	Grab sample		2-3–	Brown, medium to coarse SAND.
0		0.4	3-5'	N/R		3-5–	Black stained to brown, medium to coarse SAND.
0		0.4	5-7'	N/R	SAND	5-7–	Gray to brown, medium SAND; trace gravel, Wet at tip (see NOTE).
					------7 FT------ Bottom of boring (hole collapsed)		Water table at 7 ft.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

NOTE: 3rd attempt: 2 spoons with no recovery

ENVIRONMENTAL CONSULTING & MANAGEMENT
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GEOLOGIC LOG

Study No. 05509Y Date 12/04/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Woods, V. Singh, J. Duminuco
Well No. S-32
Location
M.P. Elevation
Drilling Started 11:50 Ended 12:50
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 12.5
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Brown to light brown, medium to fine sandy loam, trace gravel (railroad bed fill).
0			2-4'	Grab sample	SAND	2-4	Dark to light brown, fine to medium SAND; trace gravel.
0		0.7	4-6'	N/R		4-6	Light brown, medium to fine SAND.
							Water table at 6 ft.
0		1.5	10.5-12.5	N/R	------10 ft------ Meadow Mat/ Silt ------11 ft----- CLAY -------12 ft------ Bottom of boring	10-12	0-0.2': Light brown, medium SAND; Wet. 0.2-0.6': Meadow Mat 0.6-1.1': brown silt with vegetation. 1.1-1.5': Gray soft clay, some vegetation. H2S odor. Water table at 12.5'

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/13/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-33
Location
M.P. Elevation
Drilling Started 10:50 Ended 12:10
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 12.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Brown to light brown, medium to fine SAND; trace gravel.
0			2-4'	Grab sample		2-4	Brown to light brown, medium to fine SAND; trace gravel.
0		1.75	4-6'	N/R	SAND	4-6	Brown, medium to fine SAND; trace gravel.
0		0.1	6-8'	N/R		6-8	Brown, fine to medium SAND; Wet. Water table at 6 ft.
0		0.2	8-10'	N/R		8-10	Brown to gray SAND; wet.
0		1.8	10-12'	N/R		10-12	Gray, medium SAND; trace gravel, little clayey silt, Wet.
					------12 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/17/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-34
Location
M.P. Elevation
Drilling Started 12:05 Ended 12:50
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Top 1.0': Dark brown, fine SAND and silt with layers of coal, cinders and gravel (railroad bed fill).
0			2-4'	Grab sample	SAND	2-4	Brown to orange brown, fine SAND, little silt; trace gravel; Wet at bottom. Water table at 3.5'
0			9-11'	6, 5, 8, 12		9-11	Brown fine SAND and silt, little clay, tight.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/30/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory, V. Singh
Well No. S-35
Location
M.P. Elevation
Drilling Started 14:50 Ended 15:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 12.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2–	Dark brown, fine to coarse SAND and gravel with interbedded cinders.
0			2-4'	Grab sample	SAND	2-4–	Brown, medium to coarse SAND, trace gravel.
8.0		0.5	4-6'			4-6–	Brown, fine to medium SAND
20		0.6	6-8'	20, 12, 10, 9		6-8–	Brown, fine to medium SAND; Wet. Water table at 6'
28		1.8	8-10'	10, 12, 20, 19		8-10–	Brown, fine to medium SAND; gray brown staining at bottom of spoon.
20		1.6	10-12'	N/R	-----11.5 ft------ CLAY ------12 ft------ Bottom of boring	10-12–	Top 1.3': Gray fine to medium SAND bottom 1.3-1.6': Gray to black silty CLAY.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/01/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory/B. Woods
Well No. S-36
Location
M.P. Elevation
Drilling Started 09:15 Ended 10:45
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
4			0-2'	Grab Sample		0-2	Dark brown, fine to medium SAND & cinders (Railroad bed fill).
18			2-4'	Grab Sample	SAND	2-4	Brown, fine to medium SAND, trace gravel.
6		1.5'	4-6'	N/R		4-6	Light brown, medium to fine SAND, trace fine gravel, some pebbles.
2.6		0.6'	6-8'	7,31,20,43		6-8	Light brown, medium SAND.
		0	8-10'	43,63,67,74		8-10	Brown, medium to fine SAND, wet. Water Table at 9 ft.
4.0		2.0'	14-16'	3,8,12,32		14-16	Brown, coarse to medium SAND, wet.
					------16 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/01/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-37
Location
M.P. Elevation
Drilling Started 11:30 Ended 12:40
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
12.2			0-2'	Grab Sample		0-2	Dark brown, fine to coarse SAND, trace cinders, (Railroad fill).
12			2-4'	Grab Sample		2-4	Brown, fine to coarse SAND, trace gravel.
12.6		1.2'	4-6'	N/R		4-6	Brown, fine to coarse SAND, trace silt and gravel.
5.5		1.1'	6-8'	15,27,53,61		6-8	Brown fine to medium SAND, trace gravel.
12.9		1.2'	8-10'	20,31,31,35		8-10	Brown, fine to medium SAND, wet at bottom of spoon. Water table at 9.5 ft.
12.3		1.0'	14-16'	6,8,17,21		14-16	Brown, fine to coarse SAND, trace fine gravel. Wet.
					------16 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/29/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-38
Location
M.P. Elevation
Drilling Started 14:50 Ended 16:10
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 20.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Brown, fine SAND and silt, trace gravel and railroad bed fill.
6			2-4'	Grab Sample		2-4	Brown, fine SAND, trace silt.
0		5.0'	4-6'	2,4,5,4		4-6	Brown, fine SAND, trace silt.
12		0.8'	6-8'	62,3,5,11		6-8	Brown, fine SAND, trace silt.
14		0.8'	8-10'	N/R	SAND	8-10	Brown, fine SAND.
4.4		1.0'	10-12'	5,7,7,8		10-12	Brown, fine to medium SAND. Brown, fine SAND, trace silt.
12		1.5'	12-14'	7,6,7,9		12-14	Gray brown, fine to medium SAND. Wet(Bottom half) Water Table at 13 ft.
180		0.3'	18-20'	9,17,15,21	Bottom of boring ------20 ft------	18-20	Grayish brown, fine to medium SAND.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/29/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-39
Location
M.P. Elevation
Drilling Started 13:15 Ended 14:35
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 17.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Dark brown, medium to coarse SAND, trace gravel.
0			2-4'	Grab Sample		2-4	Brown, medium to coarse SAND, trace gravel. Thin lens of silty clay.
0		1.0'	4-6'	N/R		4-6	Gray brown, medium to coarse SAND with gravel.
0		1.2'	6-8'	27,43,39,46	SAND	6-8	Interbedded, gray and red-brown fine SAND, trace gravel, trace silt.
0		1.2'	8-10'	10,14,14,14		8-10	Red-brown, fine to coarse SAND. Wet at tip.
0		1.0'	10-12'	2,2,4,9		10-12	Red-brown, fine to medium SAND. Wet. Water Table at 10'.
0		2.0'	15-17'	3,5,9,15		15-17	Red-brown, fine SAND.
					------17 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/05/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-41
Location
M.P. Elevation
Drilling Started 11:00 Ended 11:30
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 4.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
78			0-2'	Grab Sample		0-2	Brown, fine to medium SAND, trace cinders and gravel.
240			2-4'	Grab Sample	SAND ------4 ft.------ Bottom of boring	2-4	Top 1.5': Brown, fine to medium SAND, trace gravel. Bottom 0.5': Brown fine to medium SAND, trace gravel-stained grey to brown.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/05/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-42
Location
M.P. Elevation
Drilling Started 13:10 Ended 14:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 14.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Brown to black, medium to fine SAND and medium gravel.
0			2-4'	Grab Sample		2-4	Brown to light brown, medium SAND, little gravel.
0		0.4'	4-6'	3,3,4,10		4-6	Brown, medium SAND, trace gravel.
0		0.8'	6-8'	4,4,7,9	SAND	6-8	Brown, medium SAND, wet. Water Table at 6.5 ft.
0		1.3'	12-14'	12,14,16,17		12-14	Gray, medium SAND, trace fine and coarse gravel. Gray to brown, clayey silt with shredded wood chips.
					------14 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
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GEOLOGIC LOG

Study No. 05509Y Date 11/05/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-43
Location
M.P. Elevation
Drilling Started 10:15 Ended 10:50
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA
Hole Diam. (in.) 10.0
Final Depth (ft.) 3.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND	0-2	Brown, fine to medium SAND, trace gravel. Top 1.1' stained dark brown to black-portion of Railroad tie.
0			2-3'	Grab Sample		2-3	Brown, fine to medium SAND, trace gravel.
					------3 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
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GEOLOGIC LOG

Study No. 05509Y Date 11/05/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-44
Location
M.P. Elevation
Drilling Started 11:35 Ended 11:55
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 8.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Dark brown, fine to medium SAND, trace cinders and gravel. (Railroad bed fill).
0			2-4'	Grab Sample	SAND	2-4	Brown, fine to medium SAND, little gravel trace cinders stained gray to black.
0			4-6'	N/R		4-6	Brown, fine to medium SAND, trace gravel; stained gray.
0			6-8'	N/R		6-8	Gray, medium to fine SAND, little gravel, slight hydrocarbon odor,wet. Water Table at 7 ft.
					------8 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/27/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-45
Location
M.P. Elevation
Drilling Started 12:50 Ended 14:10
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA

Hole Diam. (in.) 2.0
Final Depth (ft.) 13.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
2.2			0-2'	Grab Sample		0-2	Black, medium SAND and GRAVEL (Railroad bed fill). Brown to rust, medium SAND, some gravel.
65			2-4'	Grab Sample	SAND	2-4	Brown to rust, medium to fine SAND, trace gravel.
0		0.3'	4-6'	N/R		4-6	Brown, medium to fine SAND, wet.
0		0.6'	6-8'	N/R		6-8	Brown, medium SAND, wet. Water Table at 7.7 ft.
0		0.9'	8-10'	N/R		8-10	Brown to dark brown, medium SAND, wet.
					------13 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/08/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-46
Location
M.P. Elevation
Drilling Started 16:00 Ended 16:50
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 9.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
3.0			0-2'	Grab Sample		0-2–	Brown, fine SAND, trace silt and gravel.
22			2-5'	Grab Sample	SAND	2-5–	Brown, fine SAND, trace gravel.
4		1.0'	5-7'	N/R		5-7–	Brown, fine SAND, trace silt.
0		0.8'	7-9'	N/R		7-9–	Brown, fine SAND, trace silt Water Table at 8'.
					------9 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/19/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-47
Location
M.P. Elevation
Drilling Started 11:00 Ended 12:45
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 18.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
10			0-2'	Grab Sample		0-2–	Dark brown stained, medium to coarse SAND and gravel(Railroad bed fill).
5.2			2-4'	Grab Sample	SAND	2-4–	Brown to dark brown, medium to coarse SAND and gravel (Railroad bed fill).
		0'	4-6'	4,4,4,6		4-6–	
1.9		1.0'	5-7'	5,7,4,8		5-7–	Brown, medium to coarse SAND, trace fine to medium gravel.
2.9		1.0'	7-9'	9,7,11,9		7-9–	Brown to red-brown, medium to coarse SAND, trace silt.
2.2		1.6'	9-11'	17,15,21,25		9-11–	Brown, fine to coarse SAND, trace reddish silt, Wet at tip. Water Table at 13 ft.
3.2		1.0'	16-18'	8,11,7,13	---------- SAND and SILT ------18 ft.------ Bottom of boring	16-18–	Red-brown, fine SAND and SILT, trace clay, wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/19/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-48
Location
M.P. Elevation
Drilling Started 13:30 Ended 15:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 18.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
1.2			0-2'	Grab Sample		0-2	Dark brown, medium to coarse SAND, some gravel (Railroad bed fill).
0.8			2-4'	Grab Sample	SAND	2-4	Dark brown, medium to coarse SAND, trace gravel.
		0'	4-6'	4, 3, 3, 2		4-6	
0		.1'	5-7'	3, 5, 4, 7		5-7	Gray to brown, fine SAND, trace silt, wood fragments.
0		.15'	6-8'	6, 9, 9, 3		6-8	Grey to brown, fine SAND, trace silt.
		0'	8-10'	9, 5, 6, 12		8-10	
0		0.8'	9-11'	6, 8, 8, 6		9-11	Brown, fine to medium SAND.
1.4		0.8'	11-13'	10, 12, 15, 23		11-13	Gray to brown, fine to coarse SAND, trace silt towards tip of spoon. Wet at tip. Water Table at 13 ft.
6.7		0.7'	16-18'	16, 8, 12, 9		16-18	Gray, medium to coarse SAND, strong hydrocarbon odor and oil sheen.
					------18 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/19/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-49
Location
M.P. Elevation
Drilling Started 09:00 Ended 10:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 13.7
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
2.2			0-2'	Grab Sample		0-2	Dark brown, medium to coarse SAND, some gravel (Railroad bed fill).
4.5			2-4'	Grab Sample		2-4	Grey to brown, fine to medium SAND, trace gravel.
14		1.2'	4-6'	8,19,21,27		4-6	Brown, fine to medium SAND, trace dark brown clay.
2.2		0.2'	6-8'	36,25,33,78	SAND	6-8	Grey to brown, fine to medium SAND.
2.3		0.8'	8-10'	7,16,24,26		8-10	Grey to brown, fine to medium SAND, wet at tip. Water Table at 10 ft.
0.9		1.0'	13-13.7'	35,50/2	-----13.7 ft.----- Bottom of boring	13	Brown, fine to medium SAND, wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/10/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-50
Location
M.P. Elevation
Drilling Started 11:30 Ended 12:45
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 4.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Black, fine to medium SAND, little medium gravel. Brown to light brown, fine SAND and SILT, well sorted.
0			2-4'	Grab Sample	SAND	2-4	Brown, coarse to fine SAND, little gravel and cobbles.
			4-6'	Refusal	------4 ft.------ Bottom of boring	4-6	Made 4 attempts to offset boring, each time resulted in refusal @ approx. 4 ft.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/10/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-51
Location
M.P. Elevation
Drilling Started 15:15 Ended 17:05
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 14.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND & GRAVEL	0-2–	Top 1.5': Dark brown to black, medium SAND and GRAVEL, some cinders (Railroad bed).
0			2-4'	Grab Sample	----------	2-4–	Brown, medium SAND, trace gravel.
0		1.3'	4-6'	N/R		4-6–	Brown, fine SAND, well sorted.
0		1.0'	6-8'	N/R		6-8–	Brown, fine SAND, well sorted.
0		1.6'	8-10'	N/R	SAND	8-10–	Brown, fine SAND, trace gravel, tight.
0		0.1'	10-12'	N/R		10-12–	Fractured gravel blocking tip of spoon-no recovery.
0		1.2'	12-14'	N/R		12-14–	Brown, fine to medium SAND wet. Water Table at 13.5 ft.
					------14 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/10/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-52
Location
M.P. Elevation
Drilling Started 13:30 Ended 15:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 13.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Brown, medium SAND, gravel, cinders (Railroad bed), stained black.
0			2-4'	Grab Sample		2-4	Brown, medium SAND, well sorted.
0		1.5'	4-6'	N/R		4-6	Brown, medium SAND, well sorted.
0		1.2'	6-8'	N/R	SAND	6-8	Brown, medium SAND, well sorted, cinders Light brown, fine SAND.
0		1.0'	8-10'	N/R		8-10	Brown, fine SAND.
0		1.6'	10-12'	N/r		10-12	Brown, fine SAND, wet at tip.
							Water Table at 12 ft.
					------13 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/18/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-53
Location
M.P. Elevation
Drilling Started 09:30 Ended 13:00
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 12.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
1.4			0-2'	Grab Sample		0-2	Dark brown, fine to medium SAND and coarse gravel (Railroad Bed).
11			2-3.5'	Grab Sample	SAND	2-3.5	Brown, medium SAND. Well sorted.
25		1.1'	3.5-5.5'	N/R		3.5-5	Brown, medium SAND.
10		1.3'	5-7'	N/R		5-7	Sampled adjacent boring due to refusal. Brown, medium to coarse SAND.
1.4		1.4'	8-10'	N/R		8-10	Brown, medium to coarse SAND.
0		1.1'	10-12'	N/R		10-12	Brown, medium to coarse SAND. Wet.
							Water table at 11 ft.
					------12 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/12/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory/B. Woods
Well No. S-54
Location
M.P. Elevation
Drilling Started 11:00 Ended 14:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 15.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Brown, fine to medium SAND and gravel (Railroad bed fill).
0			2-3'	Grab Sample		2-3	Brown, fine to medium SAND and gravel (Railroad bed fill).
0		.1'	3-5'	7,6,6,13		3-5	Gray, coarse gravel(Railroad bed fill).
0		0.8'	5-7'	20,22,25,31	SAND	5-7	Brown, clayey silt. Light brown, medium to fine SAND.
0		1.0'	7-9'	5,18,31,45		7-9	Very light tan, medium SAND.
0		0.1'	9-11'	7,27,34,37		9-11	Brown, medium SAND. Water Table at 10.5 ft.
0		0.6'	14-15'	50 for 6"		14-15	Brown, coarse SAND and gravel,very wet.
					------15 ft.------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/12/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-55
Location
M.P. Elevation
Drilling Started 10:00 Ended 11:45
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 14.5
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2–	Black to brownish gray, medium SAND, little medium to coarse gravel, slight petroleum hydrocarbon odor.
0			2-3'	Grab Sample	SAND	2-3–	Brown, medium to fine SAND, some brown silt and medium gravel, slight oil odor.
0		1.4'	3-5'	2,6,6,6		3-5–	Black, medium SAND, some gravel Light brown to tan, medium SAND, well sorted.
0		1.1'	5-7'	2,2,3,3		5-7–	Brown to light brown, fine SAND and clayey silt.
0		1.5'	7-9'	3,5,7,8		7-9–	Brown, fine SAND and silt. Light tan, medium quartz SAND, very well sorted.
0		1.1'	9-11'	2,5,12,7		9-11–	Brown, medium to fine SAND, little gravel, wet at bottom. Water table at 10.5 ft.
0		0.3'	14-14.5'	75 for 6"	-----14.5 ft.----- Bottom of boring	14–	Dark brown, fine SAND and silt, gravel, very wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/12/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-56
Location
M.P. Elevation
Drilling Started 09:00 Ended 10:55
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Brown fine to medium SAND and SILT, little gravel.
0			2-3'	Grab sample	SAND	2-3	Light brown to tan, fine to medium SAND, little gravel.
		0	3'	50/5		3	refusal; no recovery - auger to 4'; retry spoon refusal; no recovery - auger to 5'; retry spoon
0		1.3	5-7'	30, 13, 15, 13		5-7	Brown to tan, fine to medium SAND, little silt, reddish iron staining.
0		1.3	7-9'	3, 14, 18, 21		7-9	Brown to tan, fine SAND; little silt.
0		1.3	9-11'	5, 15, 20, 50/2		9-11	Brown to tan, fine SAND.
							Water table at 10.5 ft.
					------11 ft------ Bottom of boring (auger refusal)		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/14/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-57
Location
M.P. Elevation
Drilling Started 14:25 Ended 15:50
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
			0-2'	Grab Sample		0-2	Dark brown to black stained, medium to coarse SAND and gravel and cinders (R.R. Bed fill).
0			2-4'	Grab Sample	SAND and GRAVEL	2-4	Brown, medium to coarse SAND and fine gravel.
0		0.4'	4-6'	100/6, 50/0		4-6	Brown, medium to coarse SAND and gravel with fractures.
0		0.4'	6-8'	45/6, 50/1		6-8	Brown, medium to coarse SAND and gravel.
0		1.0	8-10'	31, 63, 51, 55		8-10	Brown, fine to coarse SAND and gravel with fractured gravel. Wet at 9 ft. Water table at 9 ft.
0		1.5'	14-16'	14, 43, 23, 26		14-16	Brown, medium to coarse SAND and gravel. Wet.
					------16 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

NOTE: 0-2' PHC resampled on 11/26/90 (original sample lost by Fed. Ex.

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/17/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-58
Location
M.P. Elevation
Drilling Started 09:10 Ended 12:00
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 4.5
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-3'	Grab Sample	SAND	0-3	Brown, medium to fine SAND, little gravel.
			3-5'		------4.5 ft------ Bottom of boring (refusal)	3-5	

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/17/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-59
Location
M.P. Elevation
Drilling Started 08:50 Ended 11:00
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 7.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-3'	Grab sample	SAND	0-3–	Brown, medium to fine SAND, little gravel.
0		0.9'	3-5'	12, 11, 9, 12		3-5–	Brown to light brown, medium to fine SAND, trace gravel.
0		0.5'	5-7'	N/R		5-7–	Brown to light brown, medium SAND; trace gravel.
					------7 ft------ Bottom of boring (hole collapsed)		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/14/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-60
Location
M.P. Elevation
Drilling Started 11:20 Ended 13:55
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 14.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
12			0-2'	Grab sample		0-2	Dark brown, fine to medium SAND and gravel and cinders, stained.
12			2-4'	Grab sample		2-4	Brown, fine to coarse SAND and gravel.
5.5		1.5'	4-6'	45,49,41,50/3	SAND	4-6	Brown, fine to coarse SAND and gravel.
10.5		0.2'	6-7'	50, 50/5		6-7	Brown, fine to coarse SAND and gravel; fractured. Not enough to sample.
0		0.9	7-9'	14, 42, 18, 39		7-9	Brown, fine to coarse SAND and gravel; fractured; Wet. Water table at 8'
0		0.6'	13-15'	103, 75/3	------14 ft------ Bottom of boring	13-15	Brown fine SAND and coarse gravel; fractured. Refusal at 14 ft, wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

NOTE: 0.2' PHC resampled on 11/26/90 - 4-6' TCL resampled 12/12/90 - originals lost by Fed. Ex.

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/24/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-61
Location
M.P. Elevation
Drilling Started 12:05 Ended 12:50
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 7.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-1.1'	Grab sample		0-2–	Brown fine SAND, black staining just below surface, wet. Water table at 1.1 ft.
					SAND		
0		1.4'	5-7'	N/R		5-7–	Brown, fine SAND, black staining, trace gravel.
					------7 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/24/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-62
Location
M.P. Elevation
Drilling Started 11:00 Ended 11:50
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA

Hole Diam. (in.) 2.0
Final Depth (ft.) 9.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Brown to black-stained, fine to medium SAND, trace gravel (R.R. bed fill).
0			2-3'	Grab Sample		2-3	Water table at 2 ft.
					SAND		Brown, fine to medium SAND, trace gravel, wet.
0			7-9'			7-9	Brown, medium to coarse SAND.
					-------9 ft------- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/25/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-63
Location
M.P. Elevation
Drilling Started 8:50 Ended 10:00
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA

Hole Diam. (in.) 10.0
Final Depth (ft.) 3.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
.4			0-2'	Grab Sample	SAND	0-2	Brown, fine medium SAND (R.R. bed fill), trace coarse gravel.
0.4			2-3'	Grab Sample		2-3	Brown, fine to medium SAND, trace coarse gravel.
					------3 ft------ Bottom of boring		Water table at 3 ft.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/18/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-64
Location
M.P. Elevation
Drilling Started 15:00 Ended 15:30
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA
Hole Diam. (in.) 14.0
Final Depth (ft.) 3.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2–	Dark brown to brown, medium to coarse SAND and GRAVEL (rail road bed fill).
1.4			2-3'	Grab Sample	SAND -------3 ft------ Bottom of boring	2-3–	Dark brown to brown, medium to coarse SAND, trace gravel. Water table at 3'

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/24/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-65
Location
M.P. Elevation
Drilling Started 12:40 Ended 2:35
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA
Hole Diam. (in.) 2.0
Final Depth (ft.) 10.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2–	Brown, fine to medium SAND, trace gravel (R.R. bed fill), some black staining.
0			2-3'	Grab Sample	SAND	2-3–	Brown, fine SAND and silt, trace gravel. Water table at 3 ft.
		1.7	8-10'	N/R		8-10–	Brown, fine SAND, little silt, tight, wet.
					------10 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/10/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-66
Location
M.P. Elevation
Drilling Started 08:15 Ended 09:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND	0-2–	Dark brown, medium to fine SAND, little gravel, trace cobbles.
0			2-3'	Grab sample	---------- SILT	2-3–	Brown, clayey SILT with some fine brown stone and gray silty clay, little medium gravel.
6.1		1.3	3-5'	10, 11, 14, 16	---------- SAND	3-5–	Gray, medium to fine SAND, appears stained, hydrocarbon odor. Water table at 4 ft.
8.5		1.5	9-11'	4, 12, 12, 21	------11 ft------ Bottom of boring	9-11–	Gray, medium to fine SAND, appeares stained (spoon coated with oily sheen).

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/27/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-67
Location
M.P. Elevation
Drilling Started 10:25 Ended 11:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 6.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Brown, fine to medium SAND, trace silt and gravel (railroad bed fill); some dark brown staining at surface.
0			2-4'	Grab sample	SAND	2-4	Brown, fine to medium SAND, trace gravel.
0			4-6'	10, 24, 18, 15		4-6	Brown, fine to medium SAND, trace gravel (railroad bed gravel); Wet. Auger refusal at 4.5 ft. Water table at 5.5 ft.
					------6 ft------		
					Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/27/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-68
Location
M.P. Elevation
Drilling Started 08:55 Ended 10:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 8.0
Final Depth (ft.) 12.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2–	Brown, fine to medium SAND, trace silt, thin layer gray clay near 2' mark; trace gravel.
0			2-4'	Grab sample	SAND	2-4–	Brown, fine to medium SAND, little silt, trace gravel; moist.
0		1.0'	4-6'	6, 11, 12, 12		4-6–	Brown, fine to coarse SAND; Wet. Water table at 5 ft.
19		0.4'	10-12'	5, 16, 16, 35		10-12–	Brown, medium SAND, little fine to coarse gravel; Wet.
					------12 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/10/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-69
Location
M.P. Elevation
Drilling Started 09:30 Ended 10:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2–	Dark brown, medium to find SAND, little gravel
0			2-3'	Grab sample	SAND	2-3–	Brown to light brown, medium quartz SAND, little gravel.
0		1.3	3-5'	8, 12, 15, 8		3-5–	Brown to gray, clayey silt, trace fine gravel. Gray to black, medium quartz SAND, little fine gravel; Wet. Water table at 4.5 ft.
20		1.2	9-11'	3, 15, 7, 8		9-11–	Gray, and medium quartz SAND, some clayey silt, wet, hydrocarbon sheen and odor in water.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/04/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-70
Location
M.P. Elevation
Drilling Started 13:30 Ended 14:35
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 10.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND and GRAVEL	0-2	Black, medium to coarse SAND and GRAVEL (railroad bed fill)
0			2-4'	Grab sample		2-4	Brown, medium to coarse SAND, trace gravel.
0		1.7	4-6'	19, 35, 58, 58	SAND	4-6	Brown, medium to coarse SAND with fractured gravel.
0		1.4	6-8'	34, 48, 58, 52		6-8	Dark brown to gray to brown, medium to coarse SAND, trace fine gravel and fractured gravel.
0		1.0	8-10'	23, 15, 17, 10		8-10	Brown coarse SAND, trace gravel; Wet.
							Water table at 10 ft.
					------10 Ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/04/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods/V. Singh
Well No. S-71
Location
M.P. Elevation
Drilling Started 11:15 Ended 13:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 10.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND and GRAVEL	0-2	Black, fine to medium SAND and GRAVEL (railroad bed fill).
0			2-4'	Grab sample		2-4	Brown, fine to medium SAND, little gravel and small rounded cobbles.
0		1.9	4-6'	9, 17, 27, 37	SAND	4-6	Gray to brown, medium to coarse SAND, trace gravel with fractured gravel.
0		1.2	6-8'	N/R		6-8	Brown, medium to coarse SAND, trace gravel with fractured gravel.
0		1.4	8-10'	N/R		8-10	Gray to brown, medium to coarse SAND, trace gravel with fractured gravel; Wet. Water table at 9 ft.
					------10 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/04/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-72
Location
M.P. Elevation
Drilling Started 14:50 Ended 16:40
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND and GRAVEL	0-2	Black, fine to coarse SAND and GRAVEL (railroad bed fill).
0			2-4'	Grab sample		2-4	Brown, medium to coarse SAND, trace gravel.
0		1.1	4-6'	47, 38, 44, 48	SAND	4-6	Brown, medium to coarse SAND, trace fractured gravel.
0		0.7	6-8'	36, 50, 41, 39		6-8	Gray to brown, medium to coarse SAND, trace fractured gravel.
0		0.6	8-10'	36, 41, 27, 42		8-10	Gray to brown, medium to coarse SAND, trace gravel; Wet. Water table at 9 ft.
0		0.3	14-16'	21, 32, 41, 27		14-16	Brown, medium to coarse SAND, trace gravel.
					-----16 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/04/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By V. Singh
Well No. S-73
Location
M.P. Elevation
Drilling Started 17:00 Ended 18:40
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 3.5
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
1.7			0-2'	Grab sample	SAND and GRAVEL	0-2	Black, medium to coarse SAND and GRAVEL (railroad bed fill).
0			2-4'	Grab sample	SAND	2-4	Wood fragments, also (railroad tie) wood (railroad ties) buried.
					------3.5 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/08/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-74
Location
M.P. Elevation
Drilling Started 08:30 Ended 10:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 21.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Dark brown, clayey SILT and very coarse gravel (road fill), damp.
0			2-4'	Grab sample	SILT	2-4	Dark brown, clayey SILT very coarse gravel (road fill).
0		1.4	4-6'	14, 36, 18, 25	------4 ft------ GRAVEL ------6 ft------	4-6	Gray, coarse GRAVEL (road fill).
22		0.9	6-8'	58, 37, 108,64		6-8	Black, gray, red, medium to fine SAND, little fine gravel, little light brown clay.
4.2		0.4	8-10'	17, 23, 20, 14		8-10	Light brown, medium to fine SAND, some gravel.
		0	10-12'	47,42,44,50/1	SAND	10-12	No recovery.
0		0.9	12-14'	32, 24, 28, 31		12-14	Light brown to light tan, medium SAND, little medium to coarse gravel.
0		0.9	14-16'	20, 23, 22, 15		14-16	Light brown, medium SAND, little gravel; Wet. Water table at 15 ft.
0		1.7	19-21'	6, 9, 16, 14	Bottom of boring ------21 ft.------	19-21	Brown to gray medium to fine SAND, some gravel.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/08/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-75
Location
M.P. Elevation
Drilling Started Ended
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 20.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-3'	Grab Sample		0-3–	Brown, medium and fine SAND and silt, with very coarse gravel and cobbles (road fill).
0		0.5	3-5'	13,16,27,50		3-5–	Dark brown to black, medium and fine SAND, with large gravel (road fill).
0		0.5	5-6'	47, 50/4		5-6–	Dark brown, medium and fine SAND.
0		0.9	6-8'	21, 28, 23, 22		6-8–	Tan to light brown, fine to medium SAND, some gravel.
0		0	8-9'	16, 30/6	SAND	8-9'–	No recovery.
0		0.8	9-11'	16, 77, 68, 65		9-11–	Red and gray gravel, medium to coarse, with brown, medium SAND.
0		0	11-11.5'	50/4		11–	No recovery.
0		0	12-14'	50/1		12-14–	No recovery.
0		0.4	14-16'	6,12,20,25		14-16–	Brown, medium quartz sand; Wet.
							Water table at 15 ft.
0		0.3	19-20'	48-50/6	Bottom of boring ------20 ft------	19-20–	Brown, coarse to medium SAND; Wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/25/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-76
Location
M.P. Elevation
Drilling Started 12:55 Ended 1:15
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA

Hole Diam. (in.) 10.0
Final Depth (ft.) 1.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND & GRAVEL -------1 ft------- Bottom of boring	0-2	Brown, fine to medium SAND and GRAVEL, (R.R. bed fill), stained black. Wet at 0.7 ft.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

Note: Boring moved from proposed location into area 1 per J. Quinn of D.E.C.

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/8/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-77
Location
M.P. Elevation
Drilling Started 12:30 Ended 15:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 20.5
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2–	Light brown, medium to fine SAND, trace medium gravel.
			2-4'	Grab Sample		2-4–	Light brown to tan, medium to fine SAND.
0		1.4'	4-6'	5, 18, 20, 46		4-6'–	Brown to light brown, medium SAND.
0		1.4'	6-8'	10, 11, 23, 21	SAND	6-8–	Brown to light brown, medium SAND, small gravel, brick fragments.
0		0.6'	8-10'	6, 20, 50, 85		8-10–	Brown, medium SAND; little medium gravel, little brown silty SAND.
0		1.0'	10-12'			10-12–	
0		1.0'	13-15'	22, 18, 36, 50		13-15–	Brown, medium SAND, little Gravel.
0		1.0'	15-17'	29, 13, 33, 17		15-17–	Brown, medium quartz SAND. Wet at 16 ft. Water table at 16 ft.
0		0.3'	19-20.5'	17, 28, 50/6	Bottom of boring -----20.5 ft-----	19-20.5–	Brown, medium quartz SAND. Wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/14/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-78
Location
M.P. Elevation
Drilling Started 9:10 Ended 10:55
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 8.0
Final Depth (ft.) 17.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/"6	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND & GRAVEL	0-2–	Dark brown, fine to coarse SAND and gravel. Trace silt and cinders, (stained) to 1.6'.
0			2-4'	Grab Sample		2-4–	Tan, medium to coarse SAND and Gravel.
0		1.7'	4-6'		----------	4-6–	Brown to tan, medium to coarse SAND and fine gravel.
0		1.0'	6-8'			6-8–	Brown, fine SAND, well sorted.
0		0.7	8-10'	12, 100/3	SAND	8-10–	Brown, fine to medium SAND.
0		1.6'	10-12'	10, 25, 42, 47	----------	10-12–	Water table at 9.5 ft. Brown, medium to coarse SAND and fine gravel. Wet.
					SAND & GRAVEL		
0		1.5'	15-17'	7, 22, 18, 35		15-17–	Brown, medium to coarse SAND and fine gravel.
					-------17 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing NOTE: 0.2' resampled on 11/26/90, 8-10' resampled on 12/12/90 - ????????? lost by Fed. Ex.

ENVIRONMENTAL CONSULTING & MANAGEMENT
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GEOLOGIC LOG

Study No. 05509Y Date 10/3/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-79
Location
M.P. Elevation
Drilling Started 12:00 Ended 18:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0.1		1.2'	0-2'	17, 8, 11, 12	ASPHALT	0-2	Top 0.3': Asphalt. Brown, medium to coarse SAND, trace gravel.
0		1.5'	2-4'	16, 18, 22, 27	SAND	2-4	Black to brown, medium to coarse SAND, trace fractured gravel.
0		1.3'	4-6'	25, 34, 37, 34		4-6	Black to brown, fine to medium SAND. Trace fractured gravel.
0		0.4'	9-11'	17, 29, 37, 34		9-11	Brown, fine to medium SAND. Trace gravel. Water table at 9.5 ft.
					-------11 ft------		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/3/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-80
Location
M.P. Elevation
Drilling Started 13:40 Ended
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 8.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0		1.7'	0-2'	16, 23, 32, 44		0-2	Black to brown, fine to medium SAND and Silt, little gravel.
0		1.7'	2-4'	27, 35, 20, 20	SAND	2-4	Black to brown, fine to medium SAND, trace fractured gravel.
0		1.5'	4-6'	22, 30, 52, 25		4-6	Dark brown, fine to medium SAND, trace gravel.
0		1.8'	6-8'			6-8	Dark brown to black, fine to medium SAND, trace gravel.
					-------8 ft------- Bottom of boring (auger refusal)		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/9/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-81
Location
M.P. Elevation
Drilling Started 11:13 Ended 14:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 16.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Dark brown, medium to fine SAND, trace gravel.
0			2-4'	Grab Sample	SAND	2-4	Light brown to tan, medium to fine SAND.
0		1.0'	4-6'	12, 12, 20, 20		4-6	Tan, fine to medium to coarse SAND, some fine to coarse gravel.
0		1.5'	6-8'	12, 14, 12, 12		6-8	Brown to tan, fine to medium SAND.
0		.3'	8-10'	9, 14, 11, 11		8-10	Brown to tan, fine to medium SAND. Wet at tip. Not enough recovery to sample.
0		.2'	10-12'	9, 11, 9, 14		10-12	Brown to tan, medium to coarse SAND. Not enough recovery. Water table at 10 ft.
0		1.1'	14-16'	10, 10, 12, 12		14-16	Brown to tan, medium to coarse SAND, some fine gravel towards bottom of spoon. Red (iron) stain at 0.2' from bottom.
					--------16 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/16/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By B. Woods
Well No. S-82
Location
M.P. Elevation
Drilling Started 08:50 Ended 12:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 14.5
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Dark brown, medium SAND, little black gravel and cobbles.
0			2-3'	Grab Sample	SAND	2-3	Dark brown, medium SAND, some gravel and cobbles.
0		0.7'	4-6'	7, 50, 57, 8		4-6	Dark brown to light brown, medium SAND, trace gravel.
0		0.6'	6-8'	14, 61, 67, 72		6-8	Brown, to light brown, medium SAND, little gravel.
		0'	8-10'			8-10	Brown, medium SAND and fractured gravel, wet. Water table at 10 ft.
		0.2'	8.6-10.6'	N/R			
		<0.1'	9-11'	N/R			
		1.1'	14-16'	45, 50/3 refusal	-----14.5 ft----- Bottom of boring	14-16	Brown, medium to fine SAND and Silt, very wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/17/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By V. Singh
Well No. S-83
Location
M.P. Elevation
Drilling Started 15:10 Ended 15:35
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA
Hole Diam. (in.) 12.0
Final Depth (ft.) 3.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample	SAND	0-2	Brown to black, medium to coarse SAND.
0			2-3'	Grab Sample	-------3 ft------- Bottom of boring	2-3	Brown, medium to coarse SAND

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

1ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/17/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-84
Location
M.P. Elevation
Drilling Started 14:10 Ended 14:50
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA

Hole Diam. (in.) 12.0
Final Depth (ft.) 3.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2–	Black stained and brown, medium to coarse SAND, trace gravel.
0			2-3'	Grab Sample	SAND	2-3–	Brown, fine to medium SAND.
					-------3 ft------- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/2/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-85
Location
M.P. Elevation
Drilling Started 11:40 Ended 12:20
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
			0-1'		ASPHALT	0-1	ASPHALT, coarse Gravel (road fill)
0		1.3'	1-3'	9, 9, 14, 15		1-3	Brown to light brown, medium to fine SAND, some brown, silty clay.
0		1.2'	3-5'	10, 13, 19, 15	SAND	3-5	Brown to light brown, medium to fine SAND, little gravel, some orange silty clay.
0		1.0'	5-7'	3, 5, 9, 14		5-7	Brown, medium to fine SAND, wet. Water table at 6 ft.
0		1.0'	9-11'	35, 27, 14, 20		9-11	Brown, medium SAND, poorly sorted, some brown to gray silty clay, wet.
					------11 ft------- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/02/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By B. Woods
Well No. S-86
Location
M.P. Elevation
Drilling Started 12:40 Ended 13:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 10.5
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
		1.2'	0-0.5' 0.5-2.5'	1, 2, 4, 9	ASPHALT	0-0.5– 0.5- 2.5–	Asphalt. Dark brown to black, medium to find SAND, some brown clay. Brown to light brown, medium to coarse SAND, wet.
0		1.2'	2.5-4.5'	14, 10, 14, 16	SAND		
0		1.1'	4.5-6.5'	8, 9, 22, 27			Water table at 5 ft
0		1.2'	8.5-10.5'	7, 9, 6, 5	clay SAND ------10 ft------ Bottom of boring	8.5- 10.5–	Orange-brown, medium to fine SAND, trace clay, wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/02/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By V. Singh
Well No. S-87
Location
M.P. Elevation
Drilling Started 13:35 Ended 14:20
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
			0-0.5'		ASPHALT	0-0.5	Asphalt.
0		1.2'	0.5-2.5'	3, 5, 7, 7		0.5-2.5'	Brown, medium SAND, some silty clay
0		2.0'	1.5-4.5'	8, 14, 12, 17	SAND	2.5'	Brown, medium to coarse SAND, trace gravel.
0		1.3'	4.5-6.5'	9, 7, 12, 8		4,5	Brown, medium to coarse SAND, trace gravel, wet at 6 ft.
						6	Water table at 6'.
0		0.5'	9-11'	6, 12, 8, 6		9-11	Brown, fine to coarse SAND, trace gravel, wet.
					------11 ft----- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/01/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By B. Woods
Well No. S-88
Location
M.P. Elevation
Drilling Started Ended 13:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0		1.7'	1-3'	15, 23, 10, 30	ASPHALT	1-3–	0-0.5': Asphalt Dark brown, medium SAND, little gravel.
0		1.4'	3-5'	26, 35, 36, 23	SAND	3-5–	Brown to dark brown to gray, medium SAND, little gravel.
0		1.4'	5-7'	5, 8, 10, 11		5-7–	Brown to light brown, medium to fine SAND, wet. Water table at 6 ft.
0		1.4'	7-9'	5, 8, 8, 11		7-9–	Dark brown to brown, medium to fine SAND, poorly sorted.
0		1.1'	9-11'	5, 4, 6, 9		9-11–	0-1.1': Brown, medium to fine SAND, wet.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/01/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-89
Location
M.P. Elevation
Drilling Started 13:35 Ended 14:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
					ASPHALT	0-0.5	ASPHALT
0.1		1.4	1-3'	8, 9, 16, 15		1-3	Dark brown, medium to fine SAND; trace gravel.
0		1.5	3-5'	8, 12, 10, 16	SAND	3-5	Brown, fine SAND and Silt.
0		1.6	5-7'	5, 6, 6, 12	------5 ft-------	5-7	Brown, very fine SILT; Wet. Water table at 6 ft.
					SILT		
0		1.7	9-11'	8, 10, 15, 16		9-11	Dark brown, SILT, wet, some fine sand.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/01/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-90
Location
M.P. Elevation
Drilling Started 15:40 Ended 11:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
					ASPHALT		0-0.5': Asphalt.
0		1.5'	1-3'	9, 13, 16, 29	SAND	1-3	Dark brown to black, medium SAND, with little Gravel and cobbles.
0		1.3'	3-5'	25, 25, 16, 20		3-5	Light tan, medium fine SAND, with cobbles, some silt, little clay.

0		1.6'	5-7'	6, 8, 12, 16		5-7	Brown, SILT, wet, with occasional gray silt layers. Water table at 6 ft.
					SILT		
0		1.2'	9-11'	4, 7, 8, 15		9-11	0-1.2': Dark brown and gray SILT, wet.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/02/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-91
Location
M.P. Elevation
Drilling Started 08:55 Ended 09:40
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
					ASPHALT		ASPHALT and very coarse Gravel.
0		1.4'	1-3'	9, 19, 27, 20		1-3–	Dark brown, medium to fine SAND, little gravel (road fill).
0		0.2'	3-5'	20, 30, 44, 32	SAND	3-5–	Dark brown, medium SAND, gravel.
0		1.0'	5-7'			5-7–	Brown-orange to brown, medium to fine SAND, some clayey silt. Wet Water table at 7 ft.
0		1.4'	9-11'	5, 17, 19, 21	---------- SILT	9-11–	Brown to gray, clayey SILT, wet.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/02/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. S-92
Location
M.P. Elevation
Drilling Started 10:10 Ended 11:15
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 6.0
Final Depth (ft.) 11.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
						0-1–	Concrete and fill.
0		1.3'	1-3'	7, 18, 24, 18	SAND	1-3–	Dark brown, medium to fine SAND, occasional concrete aggregate.
0		0.9'	3-5'	41, 19, 18, 8		3-5–	Brown to light brown, medium SAND.
0		1.0'	5-7'	42, 11, 10, 9		5-7–	Brown, medium to fine SAND.
0		0.7'	7-9'	58, 40, 34, 24		7-9–	Brown to olive, medium to fine SAND, some quartz cobbles.
0		0.5'	9-11'	34, 24, 19, 18		9-11–	Gray, coarse SAND and gravel, wet. Water table at 10'.
					------11 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/18/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. S-93
Location
M.P. Elevation
Drilling Started 9:45 Ended 12:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 27.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2–	Brown, fine to medium SAND, trace silt, trace fine gravel (R.R. bed gravel at top also).
0			2-4'	Grab Sample		2-4–	Light brown, fine to medium SAND, trace silt; Trace fine gravel.
0		.8'	4-6'	4, 6, 6, 16		4-6–	Brown to tan, fine to medium SAND, little silt
0		1.0'	6-8'	12, 24, 36, 32	SAND	6-8–	
0		.8'	8-10'	7, 52, 50/3		8-10–	Light brown, medium to coarse SAND, little fine gravel, poorly sorted. Some angular rock fragments.
0		.5'	10-12'	11, 37, 50/2		10-12–	Light brown, fine to coarse SAND, little fine to coarse gravel, poorly sorted. Some angular rock fragments.
0		.7'	12-14'	7, 36, 50/1		12-14–	Brown to tan, fine to medium to coarse SAND.
0		1.0'	14-16'	36, 50, 50, 32		14-16–	Brown to tan, medium to coarse SAND, little fine gravel. SAND
0		.9'	16-18'	18, 28, 36, 57		16-18–	Brown to tan, fine to coarse to medium SAND and gravel - some fragments.
0		1.1'	18-20'	17, 15, 24, 28		18-20–	Brown to tan, medium to coarse SAND, little fine gravel at tip.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/18/90
Project Sunnyside Yard
Client AMTRAK
Page 2 of 2
Logged By H. Gregory
Well No. S-93
Location
M.P. Elevation
Drilling Started 9:45 Ended 12:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 6.0
Final Depth (ft.) 27.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0		0.6'	20-22'	3, 18, 37, 12		20-22–	Brown to tan, fine to coarse SAND; trace fine gravel; Wet. Water table at 21 ft.
					SAND		
0			25-27'	3, 6, 4, 7		25-27–	Brown to tan, fine to coarse SAND; Wet.
					------27 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/18/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-94
Location
M.P. Elevation
Drilling Started Ended
Driller Land, Air, Water Environmental Services
Type of Rig Tripod

WELL DATA

Hole Diam. (in.) 2.0
Final Depth (ft.) 7.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab Sample		0-2	Dark brown stained fine to coarse SAND and Gravel.
0			2-3'	Grab Sample	SAND	2-3	Black to brown, fine to coarse SAND, trace silt.
0		0.3'	3-5'	N/R		3-5	Black to brown, fine to coarse SAND, trace gravel and fractured gravel.
0		4.0'	5-7'	N/R		5-7	Brown, fine to coarse SAND, trace gravel and fractured gravel.
					-------7 ft------- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/18/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. S-95
Location
M.P. Elevation
Drilling Started 14:00 Ended 14:15
Driller Land, Air, Water Environmental Services
Type of Rig Hand Driven

WELL DATA

Hole Diam. (in.) 2.0
Final Depth (ft.) 3.0
Casing Diam. (in.)
Casing Length (ft.)
Screen Setting (ft.)
Screen Slot & Type
Well Status

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
2.2			0-2'	Grab Sample		0-2	Brown to black to gray, fine to coarse SAND and gravel (R.R. bed fill).
					SAND		
2.2			2-3'	Grab Sample		2-3	Gray to brown, fine to coarse SAND, little gravel.
					-------3 ft------- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/06/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-13
Location
M.P. Elevation
Drilling Started 08:40 Ended 10:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 14
Casing Diam. (in.) 4
Casing Length (ft.) 12
Screen Setting (ft.) 12 - 2
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Brown fine to medium SAND, trace silt and fine gravel.
0.1			2-4'	Grab sample		2-4	Brown fine to medium SAND, trace silt and fine gravel, gray staining to silt. Water table at 4 ft.
					SAND		
30		1.7	9-11'	3, 3, 10, 12		9-11	Brown fine to medium SAND, trace silt, fine gravel, gray staining.
					------14 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

NOTE: 2nd attempt - 1st attempt abandoned when augers broke water pipe on 10/20/90

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/07/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-16
Location
M.P. Elevation
Drilling Started 09:45 Ended 14:45
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 14
Casing Diam. (in.) 4
Casing Length (ft.) 15
Screen Setting (ft.) 12.5 - 2.5
Screen Slot & Type 20-slot S.S.
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge - bail product

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
30			0-2'	Grab sample		0-2–	Brown fine to medium SAND and silt; railroad bed fill; broken concrete
35			2-4'	Grab sample		2-4–	Brown fine to medium SAND stained gray
60		1.1	4-6'	5, 7, 21, 27	SAND	4-6–	Brown medium SAND, trace fine sand and fine gravel stained gray, wet
81		1.4	6-8'	11, 12, 36, 25			Water table at 5.2 ft.
131		1,4	10-12'	8, 12, 25, 17		10-12–	Brown medium to coarse SAND stained gray
					------14 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/08/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. MW-17
Location
M.P. Elevation
Drilling Started 12:35 Ended 15:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 13
Casing Diam. (in.) 4
Casing Length (ft.) 15
Screen Setting (ft.) 12 - 2
Screen Slot & Type 20-slot S.S.
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Brown and black sand, little gravel.
62			2-4'	Grab sample		2-4	Strong hydrocarbon odor.
52		1.0	4-6'	N/R	SAND	4-6	Gray fine to medium SAND, little gravel, strong hydrocarbon odor.
60		1.3	9-11'	6, 12, 12, 25		9-11	Gray stained fine to medium SAND, trace silt, strong hydrocarbon odor.
					------13 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing
NOTE: 3rd attempt to install well. 1st and 2nd attempts were abandoned due to auger refusal and heaving sand.

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/07/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-19
Location
M.P. Elevation
Drilling Started 09:00 Ended 3:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 10
Final Depth (ft.) 15
Casing Diam. (in.) 4
Casing Length (ft.) 16.5
Screen Setting (ft.) 13.5 - 3.5
Screen Slot & Type 20-slot S.S.
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
30			0-2'	Grab sample		0-2	Dark brown fine to medium SAND. Gravel to cinders; Railroad bed fill.
70/23			2-4'	Grab sample	SAND	2-4	Top 1.0': Dark brown fine to coarse SAND, gravel and cinders, Railroad bed fill. Bottom 1.0': Brown fine to coarse SAND, trace silt.
18		1.1	4-6'	1, 3, 4, 10	and	4-6	Brown to gray brown fine SAND, trace silt (iron staining). Tip had gray fine sand with wet clayey silt.
					SILT		Water table at 5.5'
3.9		1.5	6-8'	4, 5, 5, 6		6-8	Top 0.5': Gray-brown fine SAND, trace clayey silt. Bottom 1.0': Brown fine to medium SAND, wet.
60		13	12-14'	18, 21, 29, 30		12-14	Brown fine to coarse SAND, trace silt.
					------15 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/11/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-20
Location
M.P. Elevation
Drilling Started 08:30 Ended 10:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 10
Final Depth (ft.) 14
Casing Diam. (in.) 4
Casing Length (ft.) 14.5
Screen Setting (ft.) 12.5 - 2.5
Screen Slot & Type 20-slot S.S.
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
12.2			0-2'	Grab sample		0-2	Dark brown fine to medium SAND and cinders (railroad bed fill).
19.1			2-4'	Grab sample	SAND	2-4	Dark gray-brown stained fine to medium SAND. Trace silt, oil soaked, free product entering hole.
59.1		1.1	4-6'	6, 5, 5, 9		4-6	Dark gray-brown stained fine to coarse SAND, trace silt, oil soaked, wet oily sheen. Water table at 4 ft.
50.4		0.8	9-11'	7, 12, 8, 17		9-11	Gray-brown fine to coarse SAND, trace silt, wet, oily sheen, tight.
					------14 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/06/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-21
Location
M.P. Elevation
Drilling Started 10:00 Ended 12:50
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 14
Casing Diam. (in.) 4
Casing Length (ft.) 12
Screen Setting (ft.) 12 - 2
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
8.2			0-2'	Grab sample		0-2	Dark brown to black stained fine to medium SAND and silt with railroad bed cinders.
19			2-4'	Grab sample		2-4	Brown fine SAND, little silt.
1.5		1.3	4-6'	N/R	SAND	4-6	Brown fine SAND, trace Silt, wet. Water table at 4 ft.
47.7		0.2	9-9.5'	26, 102/0		9-9.5	Spoon refusal at 9.5'; Dark gray stained medium to coarse SAND with fractured gravel.
*		1.8	9-11	10, 12, 28, 35		9-11	Dark gray to black stained fine to coarse SAND, trace gravel.
					------14 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/20/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By H. Gregory
Well No. MW-22
Location
M.P. Elevation
Drilling Started 08:30 Ended 11:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 12
Casing Diam. (in.) 4
Casing Length (ft.) 11
Screen Setting (ft.) 1 - 11
Screen Slot & Type 20-slot S.S.
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
40			0-2'	Grab sample		0-2	Brown fine to medium SAND, little coarse gravel, hydrocarbon odor and staining.
55			2-4'	Grab sample	SAND	2-4	Brown medium SAND, trace coarse gravel; Hydrocarbon odor, black staining; free product. Water table at 3 ft.
44		2	8-10'	4, 3, 3, 3		8-10	Brown medium to coarse SAND; Hydrocarbon odor; black staining; Wet
					------12 ft------- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/16/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. MW-23
Location
M.P. Elevation
Drilling Started 09:15 Ended 17:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 40
Casing Diam. (in.) 4
Casing Length (ft.) 39
Screen Setting (ft.) 36.5 - 26.5
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
35			0-2'	Grab sample		0-2	Brown fine to medium SAND with gravel and cinders (railroad bed fill).
107			2-4'	Grab sample		2-4	Gray/brown stained fine to coarse SAND, trace gravel, hydrocarbon odor; free floating product observed at 3.5 ft. Water table at 3.5 ft.
					SAND		
75		0.8	9-11'	N/R		9-11	Gray stained fine to coarse SAND; strong hydrocarbon odor, free floating product, wet.
100		1.2	14-16'	N/R		14-16	Gray fine to coarse SAND, trace gravel, wet; Strong odor.
100		1.4	19-21'	N/R		19-21	Gray fine to coarse SAND, wet; Strong odor.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT

ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/16/90
Project Sunnyside Yard
Client AMTRAK
Page 2 of 3
Logged By V. Singh
Well No. MW-23
Location
M.P. Elevation
Drilling Started 09:15 Ended 17:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 10
Final Depth (ft.) 40
Casing Diam. (in.) 4
Casing Length (ft.) 39
Screen Setting (ft.) 36.5 - 26.5
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
					SAND		
45		1.7	24-26'	N/R		24-26–	Gray stained fine to coarse SAND, wet, strong odor; (5' of heave in Augers; used split spoon and removed 5 full spoons, keeping 5th as most representative archive sample).
65		2.0	29-31'	N/R		29-31–	Gray stained fine to medium SAND, wet: Strong odor (sampling procedure as above).
32		2.0	34-36'	N/R	------36 ft------	34-36–	Gray fine to coarse SAND, Wet: Strong odor (sampling procedure same as above). Bottom of boring abandoned 11/06/90; restart 11/26/90; plugged auger and drilled to 40' (OK per Chris Magee of DEC.); plug had dislodged and heave measures 9' inside auger. Unable to set screen; augers pulled at this time. Bottom auger contained a fine gray clayey SILT with trace coarse gravel and cobbles (inside auger and outside); samples of this were collected and archived at 36- to 40' sample. Gray clayey SILT, trace coarse gravel and cobbles.
					SILT		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT

ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/16/90
Project Sunnyside Yard
Client AMTRAK
Page 3 of 3
Logged By V. Singh
Well No. MW-23
Location
M.P. Elevation
Drilling Started 09:15 Ended 17:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 10
Final Depth (ft.) 40
Casing Diam. (in.) 4
Casing Length (ft.) 39
Screen Setting (ft.) 36.5 - 26.5
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
					------40 ft------ Bottom of boring	40–	Boring abandoned at this time. Well completed 12/10/90 (see well construction log). NOTE: Well completed on third attempt.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/27&28/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 2
Logged By H. Gregory
Well No. MW-24
Location
M.P. Elevation
Drilling Started 11:30/27 Ended 13:30/28
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 10
Final Depth (ft.) 27
Casing Diam. (in.) 4
Casing Length (ft.) 26
Screen Setting (ft.) 24 - 14
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2–	Top 0.7': Dark brown fine SAND and silt. Bottom 1.3': Brown medium to coarse SAND, little fine gravel.
0			2-4'	Grab sample		2-4–	Brown medium to coarse SAND, little fine gravel.
0		0.6	4-6'	60, 70, 100/1"		4-6–	Brown medium to coarse SAND, some fine to coarse gravel and fractured gravel.
0		.5	6-7'	17,100/5"	SAND	6-7–	Brown medium to coarse SAND, little gravel and fractured gravel.
0		.3	7-8'	39, 150/6"		7-8–	Fractured rock.
0		.6	8-9'	119, 77		8-9–	Brown fine to coarse SAND and gravel with fractured gravel.
0		1.2	9-11'	13, 15, 53, 87		9-11–	Brown medium to coarse SAND, little gravel; fractured gravel at tip.
0		1.5	11-13'	9, 27, 42, 57		11-13–	Brown medium to coarse SAND, trace fine gravel.
0		1.4	13-15'	7, 20, 27, 34		13-15–	Brown fine to medium SAND
0		1.6	15-17'	15, 33, 47, 65		15-17–	Brown fine to medium SAND, wet at tip
							Water table at 16 ft.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT

ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/27&28/90
Project Sunnyside Yard
Client AMTRAK
Page 2 of 2
Logged By H. Gregory
Well No. MW-24
Location
M.P. Elevation
Drilling Started 11:30/27 Ended 13:30/28
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 10
Final Depth (ft.) 27
Casing Diam. (in.) 4
Casing Length (ft.) 26
Screen Setting (ft.) 24 - 14
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			22-24	4, 3, 8, 14	SAND	22-24–	Brown fine to medium SAND, wet.
					------27 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing
NOTE: 3rd attempt to install well. 1st and 2nd attempts abandoned due to auger; refusal and heaving sands

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/17/90
Project Sunnyside Yard
Client AMTRAK
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Logged By B. Woods
Well No. MW-25
Location
M.P. Elevation
Drilling Started 10:55 Ended 12:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 15.5
Casing Diam. (in.) 4
Casing Length (ft.) 15
Screen Setting (ft.) 15.5 - 5.5
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Top 0-0.8': Dark brown fine SAND, little gravel. Bottom 0.8-2.0': Light brown fine SAND.
0			2-4'	Grab sample		2-4	Light brown medium SAND, well sorted.
0		1.2	4-6'			4-6	Light brown-gray medium SAND, well sorted.
0		1.5	6-8'	3, 8, 16, 25	SAND	6-8	Brown to light brown medium to coarse SAND, moist. Water table at 8 ft.
0		1.8	13-15'	6, 8, 5, 4		13-15	Brown medium SAND, well sorted, wet.
					-----15.5 ft----- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT

ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/05/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh, B. Woods
Well No. MW-26
Location
M.P. Elevation
Drilling Started 12:30 Ended 18:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 8
Final Depth (ft.) 22.5
Casing Diam. (in.) 4
Casing Length (ft.) 20
Screen Setting (ft.) 21 - 11
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND & SILT	0-2	Dark brown fine to medium SAND and SILT (Railroad fill)
0			2-3'	Grab sample	------2 ft------	2-3	Brown medium to fine SAND (Railroad fill).
0		0.8	3-4'			3-4	Brown fine to medium SAND, trace gravel.
		0	4-6'	N/R		4-6	Repeated auger refusals.
12		0.25'	6-8'	N/R		6-8	Fractured gravel (not enough for sampling).
70		1.1'	9-11'	N/R		9-11	Brown medium to fine SAND.
-		0	11-11.7'	N/R			
40		0.9'	12-14'	38, 28, 66, 80	SAND	12-14	Brown medium to fine SAND, some fractured gravel, wet. Water table at 13 ft
34		0.8'	17-19'	43, 67, 38, 62		17-19	Brown medium to fine SAND.
					-----22.5 ft----- Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing
NOTE: 3rd attempt to install well. 1st and 2nd attempts abandoned due to auger refusal, and heaving sands

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 12/01/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory, B. Woods
Well No. MW-27
Location
M.P. Elevation
Drilling Started 13:15 Ended 16:30
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA

Hole Diam. (in.) 10
Final Depth (ft.) 19
Casing Diam. (in.) 4
Casing Length (ft.) 20
Screen Setting (ft.) 18 - 8
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER

Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT

Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
37			0-2'	Grab sample		0-2	Dark brown to light brown, medium SAND, some gravel, trace cobbles; dark stained in 0-7" interval.
9.0			2-4'	Grab sample		2-4	Light brown, fine to medium SAND, trace cobbles.
15.5		1.2	4-6'	N/R		4-6	Brown to light brown fine to coarse SAND, poorly sorted, wet in top 0.2.
		0	6-8'	N/R	SAND		
2.3		0.8	7-9'	11, 32, 56, 65		7-9	Gray medium to fine SAND, crushed rock.
3.9		1.1	9-11'	4, 9, 21, 19		9-11	Brown fine to medium SAND, well sorted; wet. Water table at 10 ft
11.1		1.8	14-16'	12, 34, 19, 25		14-16	Brown, medium to fine, SAND, wet.
					Bottom of boring ------19 ft------		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/09/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-28
Location
M.P. Elevation
Drilling Started 08:00 Ended 11:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 17
Casing Diam. (in.) 4
Casing Length (ft.) 16
Screen Setting (ft.) 16 - 6
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
7.1			0-2'	Grab sample		0-2	Brown fine SAND, trace gravel and silt.
21.4			2-4'	Grab sample	SAND	2-4	Brown fine SAND, trace gravel and silt.
12		1.6	4-6'	2, 2, 2, 6		4-6	Brown fine SAND, trace silt and gravel.
10.6		1.1	6-8'	5, 5,, 6, 7		6-8	Brown fine SAND, little silt. (silt on bands 0.1' - 0.2' thick) Water table at 8 ft.
7.4		1.3	13-15'	10, 13, 10, 7		13-15	Brown fine SAND, Trace Silt and clay; gray clay layer about 0.5' at 14.5 - 15'.
		1.8	14-16'	7, 6, 13, 21	------14.5 ft----- CLAY ------15 ft------- SAND -------17 ft------ Bottom of boring	14-16	Brown fine SAND; Bottom .3': Gray brown medium to coarse SAND. Middle 0.8': Brown fine SAND, trace Silted clay top 0.5'.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/17/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-29
Location
M.P. Elevation
Drilling Started 09:20 Ended 11:35
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 13
Casing Diam. (in.) 4
Casing Length (ft.) 14
Screen Setting (ft.) 11 - 1
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Dark Brown fine to medium SAND and silt with gravel and cinders, (Railroad bed fill), wet at 2 ft.
0			2-4'	Grab sample	SAND	2-4	Brown fine to medium SAND, trace silt and gravel, wet. Water table at 2 ft.
0		1.4	7-9'	2, 4, 3, 4		7-9	Brown fine SAND, trace silt and gravel.
0		1.8	11-13'	2, 2, 2, 3	------13 ft------ Bottom of boring	11-13	Brown fine SAND, trace silt and gravel.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/30/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-30
Location
M.P. Elevation
Drilling Started 9:00 Ended 14:00
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 16
Casing Diam. (in.) 4
Casing Length (ft.) 17
Screen Setting (ft.) 14 - 4
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/"6	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND, SILT & GRAVEL	0-2	Top 0.6': Dark brown fine to medium SAND and Silt. Middle 0.4': Cinders Bottom 1': Brown fine to coarse SAND and gravel.
0			2-4'	Grab sample		2-4	Brown fine to coarse SAND and gravel.
0		1.0	4-6'	4, 8, 7, 11	------4 ft------	4-6	Brown fine to coarse SAND, Trace gravel; wet at tip. Water table at 6 ft.
11		1.2	6-8'	2, 4, 6, 9	SAND	6-8	Top is brown fine to coarse SAND Bottom 0.2': Dark gray silty clay; organic; trace Peat.
		2	8-10'	4, 9, 6, 11	-------8 ft------ CLAY -------9 ft------	8-10	Top 0.5': Brown fine to coarse SAND Bottom 1.5': Meadow Mat; Wet.
13		2	11-13'	5, 7, 7, 9	Meadow Mat with Silty CLAY ------16 ft------ Bottom of boring	11-13	Meadow mat with gray black organic silty clay.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/08/90
Project Sunnyside Yard
Client AMTRAK
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Logged By H. Gregory
Well No. MW-31
Location
M.P. Elevation
Drilling Started 08:20 Ended 11:10
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 13
Casing Diam. (in.) 4
Casing Length (ft.) 12.5
Screen Setting (ft.) 12.5 - 2.5
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND and Silt	0-2	Brown fine SAND and silt, trace gravel, stained dark brown to black.
0			2-4'	Grab sample		2-4	Brown fine to medium SAND and silt, trace gravel.
0		0.7	4-6'	N/R	--------4 ft------	4-6	Brown fine to medium SAND, trace silt, wet.
							Water table at 4.5 ft.
					SAND		
25		1.2	10-12'	5, 7, 25, 50		10-12	Brown medium to coarse SAND, little fine gravel.
					------13 ft------ Bottom of boring		

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 10/04/90
Project Sunnyside Yard
Client AMTRAK
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Logged By V. Singh
Well No. MW-32
Location
M.P. Elevation
Drilling Started 08:30 Ended 1000
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 17
Casing Diam. (in.) 4
Casing Length (ft.) 12.6
Screen Setting (ft.) 12.2 - 2.6
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
		1.3	0-2'	7, 11, 10, 15		0-2	Black to brown fine to coarse SAND, trace gravel finer toward bottom.
		1.3	2-4'	8, 16, 19, 8		2-4	Black to brown fine to coarse SAND, trace gravel coarser toward bottom.
		1.1	4-6'	24, 16, 8, 10	SAND	4-6	Brown medium to coarse SAND, trace gravel in Top .8'; Wet Water table at 5 ft.
		1.4	10-12'	7, 7, 9, 14		10-12	Brown to black medium coarse SAND, trace gravel; wet.
		1.3	15-17'	4, 8, 9, 8	------15 ft------ SAND & SILT ------17 ft------ Bottom of boring	15-17	Gray/brown fine to medium SAND and SILT, trace clay; Wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/15/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By V. Singh
Well No. MW-33
Location
M.P. Elevation
Drilling Started 12:00 Ended 3:20
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 20
Casing Diam. (in.) 4
Casing Length (ft.) 18
Screen Setting (ft.) 18 - 8
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S.

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample		0-2	Black/brown fine to medium SAND and gravel (railroad bed fill).
3.8			2-4'	Grab sample		2-4	Brown fine to medium SAND, trace gravel and cobbles.
0		1.25	4-6'	N/R	SAND	4-6	Brown fine to medium SAND.
0		0	6-8'	N/R		6-8	
0		.9	8-10'	13, 21, 53, 31		8-10	Brown fine to medium SAND; Wet at top.
							Water table at 10 ft.
	0.5	18-20'	N/R		Bottom of boring ------20 ft------	18-20	Gray fine to coarse SAND, trace fine gravel; wet.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES, INC.

GEOLOGIC LOG

Study No. 05509Y Date 11/29/90
Project Sunnyside Yard
Client AMTRAK
Page 1 of 1
Logged By V. Singh
Well No. MW-34
Location
M.P. Elevation
Drilling Started 09:45 Ended 12:45
Driller Land, Air, Water Environmental Services
Type of Rig Hollow stem auger

WELL DATA
Hole Diam. (in.) 10
Final Depth (ft.) 21
Casing Diam. (in.) 4
Casing Length (ft.) 19.8
Screen Setting (ft.) 17.3 - 7.3
Screen Slot & Type PVC
Well Status Monitoring well

G-W READINGS (1)

Date	DTW MP (2)	Elev. W.S

SAMPLER
Type Split Spoon
Hammer 140 lb.
Fall 30 in.

DEVELOPMENT
Pump and surge

PID (ppm)	SAMPLE No.	Rec.	Depth	Blows/6"	Strata Change & Gen. Desc.	Depth (ft)	SAMPLE DESCRIPTION
0			0-2'	Grab sample	SAND & SILT	0-2	Dark brown fine SAND and silt.
0			2-4'	Grab sample	-------2 ft------	2-4	Brown fine to medium SAND, trace fine gravel.
0		1.6	4-6'	9, 17, 23, 28	SAND	4-6	Brown fine to medium SAND, trace silt and gravel.
0		1.2	6-8'	13, 18, 22, 27		6-8	Brown fine to medium SAND, trace silt and gravel.
0		1.3	8-10'	17, 19, 25, 32		8-10	Top 0.5': Brown fine SAND, trace gravel. 0.5-1.3: Red/brown fine to medium SAND.
0		1.2	10-12'	32, 37, 45, 48		10-12	Red/brown fine to medium SAND, interbedded in layers; Wet at tip.
0		1.7	12-14'	7, 12, 17, 20		12-14	Red/brown fine SAND; Wet. Water table at 12 ft.
0		1.8	17-19'	5, 12, 25, 32	Sand, Silt and Clay	17-19	Red/brown fine sand, silt, and CLAY interbedded in layers; Wet.
*0		1.8	19-21'	N/R	------19 ft------ Clay	19-21	Red/brown CLAY and silty clay in interbedded layers. Bottom of boring at 21 ft.

REMARKS (1) in feet relative to a common datum
(2) from top of PVC casing

NOTE: Well Screen set high to avoid clay

APPENDIX D

Chain of Custody Forms

ROUX

CHAIN OF CUSTODY

Nº 160 Y

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK SUNNYSIDE
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY
SAMPLER(S): V.S. / H.G. / B.W

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	TCL (SOIL)					TOTAL BOTTLES	NOTES
S-33 (0-2)	12/13/90	11:00	1						1	
S-33 (4-6)	12/13/90	11:50		1					1	
TOTAL JARS									2	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Vinesh Singh		12/13/90	5:00				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDEX

COMMENTS: Air Bill # 860492278 2.

ROUX

CHAIN OF CUSTODY

Nº 157 Y

Consulting Ground-Water Geologists & Engineers
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ANALYSES — PAGE OF

PROJECT NAME: AMTRAK SUNNYSIDE
PROJECT NUMBER: 05509Y
PROJECT LOCATION: SUNNYSIDE YARD: QUEENS, NY
SAMPLER(S): V.S. / B.W. / H.G.

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)	TCL (SOIL)	PCB/Pb (SOIL)			TOTAL BOTTLES	NOTES
~~MW-20 (0-2)~~	~~12/11/90~~	~~8:50~~	~~1~~							
MW-20 (0-2)	12/11/90	8:50	1			1			2	
S-60 (4-6)	12/12/90	10:50			1				1	
S-78 (8-9)	12/12/90	9:30		1					1	
TOTAL JARS									4	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
		12/12/90					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDEX

COMMENTS: AIR BILL # 8604928771

ROUX

CHAIN OF CUSTODY

№ 163 Y

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PROJECT NAME: AMTRAK SUNNYSIDE
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY
SAMPLER(S): VS/HG/BW

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	TPHC (SOIL)	PCB/PB (SOIL)					TOTAL BOTTLES	NOTES
MW-21 (0-2)	12-06-90	10.35	1	1					2	
MW-19 (0-2)	12-07-90	9.10	1	1					2	
~~S-19 (0-2)~~	~~12-07-90~~	~~A.10~~	~~1~~	~~1~~						

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Viresh Singh.		12-07-90	5.00				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDEX

COMMENTS: AIR BILL # 8604922745

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PAGE OF

PROJECT NAME: AMTRAK SUNNYSIDE

PROJECT NUMBER: 05509Y

PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY.

SAMPLER(S): V.S./H.G./B.W.

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (Soil)	PCB/Pb (Soil)	TCL (Soil)			TOTAL BOTTLES	NOTES
S-32 (0-2)	12/04/90	12.05	1	1				2	
S-19 (0-2)	12/04/90	2.00	1					1	
S-25 (0-2)	12/05/90	9.50	1					1	
S-25 (12-14)	12/05/90	10.45	1					1	
S-25 (19-21	12/05/90	11.15	1					1	
~~S-32 (9-11)~~	~~12/04/90~~	~~15.30~~	~~1~~						
MW-26 (0-2)	12/05/90	12.45	1					1	
S-19 (9-11)	12/04/90	15.30	1					1	
MW-26 (9-11)	12/05/90	16.20			1			1	
MW-26 (12-14)	12/05/90	16.50	1					1	
MW-26 (~~17-19~~) CANCELLED	12/05/90	17.30			1			1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Viresh Singh		12/05/90	6.55				

DELIVERY METHOD: FEDEX

COMMENTS: AIR BILL# 8604922443

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PROJECT NAME: AMTRAK SUNNYSIDE
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY.
SAMPLER(S): HG/BW/VS.

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	ANALYSES: PHC (SOIL)	PCB/TCL (SOIL)	TCL (SOIL)	MS/MSD (SOIL)	VOC (WATER)	TOTAL BOTTLES	NOTES
S-36 (0-2)	12/01/90	9.30	1	1				2	
S-36 (6-8)	12/01/90	9.35	1					1	
S-36 (14-16)	12/01/90	10.20	1					1	
S-37 (0-2)	12/01/90	11.45	1					1	
S-37 (0-2) MS/MSD	12/01/90	11.50				1		1	
S-37 (4-6)	12/01/90	11.55			1			1	
S-37 (8-10)	12/01/90	12.20	1					1	
S-37 (14-16) CANCELLED	12/01/90	12.35	1					1	
FB-10 (PD)	12/01/90	11.15					2	2	POST DIGGER.
FB-9 (SS)	12/01/90	11.15					2	2	SPLIT SPOON
TB-05	12/01/90	11.15					2	2	
MW-27 (0-2)	12/01/90	15.30	1					1	
MW-27 (7-9)	12/01/90	15:30	1					1	
MW-27 (14-16)	12/01/90	15:30	1					1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Joseph Dunne	ROUX	12-01-90	4.30				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDEX

COMMENTS: AIRBILL # 8604922701

ROUX

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Nº 153 Y

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PROJECT NAME: AMTRAK SUNNYSIDE
PROJECT NUMBER: 05509Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY
SAMPLER(S): V.S./B.W./H.G.

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	TCL (SOIL)	PCB (SOIL)				TOTAL BOTTLES	NOTES
MW-30 (0-2)	11/30/90	0910	1		1				2	
MW-30 (6-8)	11/30/90	11:40	1						1	
MW-30 (11-13)	11/30/90	1235	1						1	
S-35 (0-2)	11/30/90	0935	1						1	
S-35 (8-10)	11/30/90	1500		1					1	
TOTAL				REC'D					6	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
[signature]	ROUX ASSOCIATES	11/30/90	1800				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDEX EXPRESS

COMMENTS: AIRBILL # 860492269O

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CHAIN OF CUSTODY

Nº 152 Y

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PROJECT NAME: AMTRAK

PROJECT NUMBER: 05509 Y

PROJECT LOCATION: AMTRAK, SUNNYSIDE YARD, QUEENS, NY

SAMPLER(S): VS/H.G./BW

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	TCL (SOIL)					TOTAL BOTTLES	NOTES
MW-34 (0-2)	11-29-90	10.00	1	1					2	
MW-34 (10-12)	11-29-90	11.30	1						1	
S-38 (0-2)	11-29-90	15.00	1						1	
S-38 (2-4)	11-29-90	15.00		1					1	
S-38 (10-12)	11-29-90	15.30	1						1	
S-38 (12-14)	11-29-90	1540	1						1	
S-39 (0-2)	11-29-90	13.00	1						1	
S-39 (2-4)	11-29-90	15.20		1					1	
S-39 (8-10)	11-29-90	14.05	1						1	
MW-24 (15-17)	11-28-90	12.00	1						1	
TOTAL JARS									11	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Viresh Singh.		11-29-90	6.00				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDEX

COMMENTS: AIR BILL # 8604922406

~~AIR~~

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CHAIN OF CUSTODY

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PROJECT NAME: AMTRAK SUNNYSIDE YARD
PROJECT NUMBER: 055094
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS NY
SAMPLER(S): B.W., H.G., V.S

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)	MS/MSD (SOIL)				TOTAL BOTTLES	NOTES
S-57 (0-2)	11/26/90	1000	1						1	
S-60 (0-2)	11/26/90	0930	1						1	
S-78 (0-2)	11/26/90	0900	1	1	1				3	
MW-24 (0-2)	11/27/90	1205	1						1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Joseph Dunnuss	ROUX	11/27/90					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS: AIRBILL # 8604922325

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CHAIN OF CUSTODY

№ 164 Y

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PROJECT NAME: AMTRAK SUNNYSIDE

PROJECT NUMBER: 05509 Y

PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY

SAMPLER(S): V.S. / B.W. / H.G.

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)	TCL (SOIL)				TOTAL BOTTLES	NOTES
S-53 (0-2)	11-18-90	0955	1	1					2	
S-53 (3.5-5.5)	11-18-90	1030		1					1	
S-53 (5-7)	11-18-90	12.30			1				1	
S-53 (8-10)	11-18-90	13.00	1						1	
TOTAL (JARS)									5	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Viresh Singh		11-19-90	5:00 PM				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDEX.

COMMENTS:

ROUX

CHAIN OF CUSTODY

Nº 150 Y

Consulting Ground-Water Geologists & Engineers
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ANALYSES

PROJECT NAME: AMTRAK / SUNNYSIDE
PROJECT NUMBER: 05509 4
PROJECT LOCATION: L.I.C. QUEENS, N.Y.
SAMPLER(S): BW, HG

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (soil)	PCB/Pb (soil)	TCL (soil)				TOTAL BOTTLES	NOTES
MW-29 (0-2')	11/17/90	09:40	1						1	
S-34 (0-2')	11/17/90	12:20	1	1					2	
S-26 (0-2')	11/17/90	13:10	1	1					2	
S-26 (4'-6')	11/17/90	13:25	1						1	
MW-25 (0-2')	11/17/90	11:05	1						1	
MW-25 (4'-6')	11/17/90	11:20			1				1	
MW-25 (6'-8')	11/17/90	11:25	1						1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
[signature]	Roux Assoc	11/17/90	1500				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD

COMMENTS

ROUX

CHAIN OF CUSTODY

№ 137 Y

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ANALYSES

PAGE OF

PROJECT NAME: SUNNYSIDE YARD/AMTRAK

PROJECT NUMBER: 05509Y

PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY

SAMPLER(S): HG, VS

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	VOC (40 ML ~~WATER~~ LIQUID)	PHC (SOIL)					TOTAL BOTTLES	NOTES
UST - 1	11/16/90	0825	2						2	
MW-23 (9-11)	11/16/90	1155		1					1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	~~RELINQUISHED~~ RECD BY: (SIGNATURE)	FOR	DATE	TIME
	ROUX ASSOCIATES	11/16/90	1800				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

ROUX

CHAIN OF CUSTODY

Nº 147 Y

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

ANALYSES

PAGE OF

PROJECT NAME: AMTRAK SUNNYSIDE

PROJECT NUMBER: 05509 Y

PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY

SAMPLER(S): HG/VS/BW

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	TCL (SOIL)	PCB (SOIL)	MS/MSD (SOIL)			TOTAL BOTTLES	NOTES
S-78 (0-2) MS/MSD	11/14/90	0930	1		6	1			1	
S-78 (0-2)	11/14/90	0930	1		1				2	
S-78 (8-9)	11/14/90	1020			1				1	
S-60 (0-2)	11/14/90	1240	1						1	
S-60 (4-6)	11/14/90	1320		1					1	
S-57 (0-2)	11/14/90	1520	1						1	
MW-33 (0-2)	11/15/90	1230	1						1	
MW-33 (8-10)	11/15/90	1415	1						1	
TOTAL # BOTTLES									9	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Viresh Singh	Roux Assoc.	11/15/90	5:15 PM				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD

COMMENTS

ROUX

CHAIN OF CUSTODY

Nº 145 Y

Consulting Ground-Water Geologists & Engineers
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775 PARK AVENUE, SUITE 255
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(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK / SUNNYSIDE

PROJECT NUMBER: 05509Y

PROJECT LOCATION: SUNNYSIDE YARD, QUEENS

SAMPLER(S): BN, HG, VS

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	ANALYSES: PHC (SOIL)	PCB (SOIL)	TCE (SOIL)				TOTAL BOTTLES	NOTES
S-6 (0'-2')	11/11/90	1230	1	1					2	
S-6 (8'-9')	11/11/90	1350	1						1	
S-16 (0'-2')	11/11/90	1050	1	1	4				2	
S-16 (10'-12')	11/11/90	1120	1						1	
S-20 (0-2)	11/11/90	1440	1						1	
TOTAL									7	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
	Roux Associates	11/12/90	0900				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

ROUX

CHAIN OF CUSTODY

Nº 146 Y

Consulting Ground-Water Geologists & Engineers
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(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK SUNNYSIDE

PROJECT NUMBER: 055094

PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY

SAMPLER(S): BN, HG, JD

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)					TOTAL BOTTLES	NOTES
S-50 (0-2)	11/10/90	1150	1	1					2	
S-51 (0-2)	11/10/90	1540	1	1					2	
S-52 (0-2)	11/10/90	1350	1	1					2	
S-52 (10-12)	11/10/90	1445	1						1	
S-51 (12-14)	11/10/90	1650	1						1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
	ROUX & ASSOCIATES	11/10/90					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

ROUX

CHAIN OF CUSTODY

Nº 138 Y

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK / SUNNYSIDE YD.

PROJECT NUMBER: 055094

PROJECT LOCATION: LONG ISLAND CITY - QUEENS NY.

SAMPLER(S): H.G.

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (soil)						TOTAL BOTTLES	NOTES
MW-28 (0-2')	11/9/90	08:25	1							
MW-28 (6'-8')	11/9/90	09:00	1							

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Gary Hagan	Roux Assoc	11/9/90	1300				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FED. EXP. SAT. DEL. - Priority Overnite

COMMENTS:

ROUX

CHAIN OF CUSTODY

Nº 135 Y

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
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HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: MMTBAK / SUNNYSIDE
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY
SAMPLER(S): H.G. / B.W. / V.S.

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)	[redacted]/Pb (SOIL)	TOC (SOIL) TOTAL ORGANIC CARBON	MS/MSD	TCL SOIL	TCL (WATER)	40 ML VIALS; TOTAL BOTTLES	NOTES
~~MW-17 (0-2) MS/MSD~~	~~11-08-90~~	~~12:45~~					1				
~~MW-17 (0-2)~~	~~11-08-90~~	~~12:45~~	1	1							
MW-31 (0-2)	11-08-90	08:50	1	1	1					2	
MW-31 (10-12)	11-08-90	10:10	1							1	
MW-16 (0-2)	11-07-90	10:50	1	1						2	
MW-16 (6-8)	11-07-90	14:20				1				1	
MW-16 (10-12)	11-07-90	11:45		1						1	
S-41A (3.5-5.5)	11-07-90	16:25						1		1	RUSH ANALYSIS
S-41A	11-07-90	16:30							2	2	RUSH ANALYSIS
S-46 (0-2)	11-08-90	16:20	1							1	
S-46 (0-2) MS/MSD	11-08-90	16:20	1				1			1	
S-46 (7-9)	11-08-90	16:48	1							1	
TOTAL BOTTLES									13	13	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Joseph Dunnuna		11/8/90	1700				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS: NEED TCL RESULTS ASAP

ROUX

CHAIN OF CUSTODY

Nº 165 Y

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ROUX ASSOCIATES INC
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(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK/SUNNYSIDE YARD
PROJECT NUMBER: 05509Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY.
SAMPLER(S): H.G. / B.W. /

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	TCL (SOIL)	VOA (WATER)		MS/MSD (SOIL)		TOTAL BOTTLES	NOTES
S-44 (0-2') MS/MSD	11-05-90	11.50					1		1	
S-44 (0-2)	11-05-90	11.45	1						1	
S-44 (4-6)	11-05-90	11.50	1						1	
S-43 (0-2')	11-05-90	10.45	1	1					2	
S-41 (0-2')	11-05-90	11.20	1						1	
S-42 (0-2)	11-05-90	13.45	1						1	
S-41 (2-4)	11-05-90	11.25	1						1	
TB-4	11-05-90	12.00			2				2	
EB-7 (S.S.)	11-06-90	12.00			2				2	SPLIT SPOON
EB-8 (P.D)	11-06-90	12.00			2				2	POST DIGGER
	~~11-06-90~~									
TOTAL BOTTLES								TOTAL	14	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Harry Gregory		11-06-90	4.30PM.				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD	COMMENTS

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№ 166 Y

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Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
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(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: Sunnyside Yd., Queens
SAMPLER(S): HG, BW

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	ANALYSES: PHC (Soil)	PCB (Soil)					TOTAL BOTTLES	NOTES
S-67 (0-2')	10/27/90	10135	1	1					2	
S-68 (0-2')	10/27/90	Ø900	1	1					2	
S-45 (0-2')	10/27/90	1315	1						1	
S-45 (2'-4')	10/27/90	1320	1						1	
									6 TTL	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
[signature]	Roux Assoc.	10/27/90	14:45				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FED. EXP.

COMMENTS:

ROUX

CHAIN OF CUSTODY

Nº 136 Y

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PROJECT NAME: SUNNY SIDE YARD/AMTRAK
PROJECT NUMBER: 05509Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY
SAMPLER(S): B.W | H.G./V.S.

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)	MS/MSD (SOIL)	PCB (WATER) METHOD 506	VOC (WATER)		TOTAL BOTTLES	NOTES
S-1 (0-2)	10/26/90	1010	1	1					2	
S-1 (2-3)	10/26/90	1010	1	1					2	
MW-17 (0-2)	10/26/90	1300	1	1					2	
MW-17 (0-2) MS/MSD	10/26/90	1300			1				1	
S-05 (0-2)	10/26/90	1400	1	1					2	
~~E.B.~~ -										
W.M.	10/26/90	1500				2			2	RUSH 48 HR. TURNAROUND
F.B-6 (PD)	10/26/90	1200					2		2	POST DIGGER.
F.B.-5 (SS)	10/25/90	0830					2.		2	SPLIT SPOON
T.B.-3							2		2.	
TOTAL BOTTLES									17	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Joseph Dunne		10/26/90	1630				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FED. EXP.

COMMENTS: RUSH PCB 506 SAMPLES

ROUX

CHAIN OF CUSTODY

Nº 134 Y

Consulting Ground-Water Geologists & Engineers
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775 PARK AVENUE, SUITE 255
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PROJECT NAME: AMTRAK / SUNNYSIDE YARD
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY
SAMPLER(S): H-G / V.S. / B.W.

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)	TCL (SOIL)	PCB/PB (SOIL)	MS/MSD (SOIL)		TOTAL BOTTLES	NOTES
S-2 (0-2')	10/24/90	1530	1			1			2	
~~S-2 (2-4')~~	~~10/24/90~~	~~1540~~		X					X	
S-65 (0-2')	10/24/90	1200	1						1	
S-62 (0-2')	10/24/90	1100	1		1				2	
S-61 (0-1.1)	10/24/90	1130	1						1	
S-61 (0-1.1) MS/MSD	10/24/90	1130					1		1	
S-61 (5-7')	10/24/90	12:30			1				1	
S-63 (0-2')	10/25/90	950	1	1					2	
S-63 (0-2') MS/MSD	10/25/90	950					1		1	
S-7 (0-2')	10/25/90	1100	1	1					2	
S-8 (0-2')	10/25/90	1100	1	1					2	
S-76 (0-0.7)	10/25/90	1310	1	1					2	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Virsh Singh		10/25/90	5.02				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

ROUX

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Nº 168 Y

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PROJECT NAME: SUNNYSIDE YARD / AMTRAK.
PROJECT NUMBER: 05509Y
PROJECT LOCATION: SUNNYSIDE YARD QUEENS, NY.
SAMPLER(S): H.G./B.W/V.S.

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)	MS/MSD (SOIL)				TOTAL BOTTLES	NOTES
MW-22 (0-2')	10/20/90	0840	1	1					2	
MW-22 (0-2') MS/MSD	10/20/90	0840			1				1	
MW-13 (0-2')	10/20/90	1210	1	1					2	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
[signature]	Roux Associates	10/20/90	1600				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

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Nº 083 Y

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ANALYSES — PAGE OF

PROJECT NAME: AMTRAK
PROJECT NUMBER: 05509Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS
SAMPLER(S): VS / HG / BW

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC SOIL	TCL SOIL	TO BE DETERMINED - HOLD				TOTAL BOTTLES	NOTES
S-47 (0'-2')	10/19/90	1100	1	1					2	
S-49 (0'-2')	10/19/90	0940	1						3	
S-49 (2'-4')	10/19/90	0930		1					2	
S-49 (4'-6')	10/19/90	0940	1						1	
S-49 (8'-10')	10/19/90	1000	1						1	
S-48 (0'-2')	10/19/90	1330	1						1	
S-48 0.4'-0.6	10/19/90	1340			1				1	
S-48 (2'-4')	10/19/90	1340	1						1	
S-48 (11'-13')	10/19/90	1440	1						1	
S-47 (0'-2')	10/19/90	1100	1						1	
S-47 (2'-4')	10/19/90	1110		1					1	
S-47 (7'-9')	10/19/90	1140	1						1	
S-47 (11'-13')	10/19/90	1215	1						1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RECD BY RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
	ROUX ASSOCIATES	10/19/90					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

ROUX

CHAIN OF CUSTODY

Nº 084 Y

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK / SUNNYSIDE
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS NY.
SAMPLER(S): B.W/V.S/H.G.

ANALYSES — PAGE OF

	SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (SOIL)	PCB (SOIL)	TCL (SOIL)				TOTAL BOTTLES	NOTES
✓	S-94 (0-2')	10/18/90	11:00	1						1	
✓	S-94 (2-3')	10/18/90	11:00		1					1	
✓	S-93 (0'-2')	10/18/90	1000	1						1	
✓	S-93 (18-20')	10/18/90	11:45	1						1	
✓	S-25 (0-2')	10/18/90	12:45	1						1	
	~~	~~~~~~~~	~~~~~~~~	~~~~~~~~	~~~~~~~~	~~~~~~~~				~~~~~~~~	
✓	S-95 (0-2')	10/18/90	14:00	1						1	
✓	S-64 (0-2')	10/18/90	15:30	1		1				1	
✓	S-64 (2'-3')	10/18/90	1510			1				1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME
[signature]	ROUX ASSOCIATES	10/18/90	1700				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

ROUX

CHAIN OF CUSTODY

№ 082 Y

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PROJECT NAME: AMTRAK.
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD, QUEENS, NY.
SAMPLER(S): ~~VS~~ / BW.

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	VOC 40 ml VIALS (WATER)					TOTAL BOTTLES	NOTES
FB-3 SS.	10/17/90	16:20	2●					2	FIELD BLANK SPLIT SPOON
FB-4 PD	10/17/90	16:20	2					2	FIELD BLANK POST DIGGER.
TB-2.	10/17/90	—	2					2	TRIP BLANK.

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Vince Smith.	Roux.	10/17/90	1700				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS.

COMMENTS:

ROUX

CHAIN OF CUSTODY

Nº 081 Y

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775 PARK AVENUE, SUITE 255
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PROJECT NAME: Sunnyside Yard / Amtrak
PROJECT NUMBER: 05509Y
PROJECT LOCATION: Sunnyside Yd. Queens, NY
SAMPLER(S): V.S., B.W, H.G.

ANALYSES — PAGE 1 OF 1

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PAC CLEAR GLASS - SOIL					TOTAL BOTTLES	NOTES
S-54 (0'-2')	10/12/90	12:15	1						
S-54 (7'-9')	10/12/90	14:00	1						
S-55 (0'-2')	10/12/90	10:15	1						
S-55 (7-9')	10/12/90	11:45	1						
S-56 (0'-2')	10/12/90	9:30	1						
S-56 (7'-9')	10/12/90	10:45	1						

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Henry Higgins	Roux Assoc.	10/13/90	12:00				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: Federal Express

COMMENTS:

ROUX

CHAIN OF CUSTODY

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE
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HUNTINGTON, NEW YORK 11743

ANALYSES

Page of

Project Name: SUNNYSIDE YARD / AMTRAK
Project Number: 055094
Project Location: SUNNYSIDE YARD, QUEENS NY
Sampler(s): V.S. BW HG

Sample Designation/Location	Date Collected	Time Collected	PHC CLEAN GLASS / SOIL	PCB CLEAN GLASS / SOIL					TOTAL BOTTLES	NOTES
S-3 (0'-2')	10/10/90	1130	1	1					2	
S-4 (0'-2')	10/10/90	1030	1	1					2	
S-9 (0'-2')	10/10/90	1330	1	1					2	
S-10 (0'-2')	10/10/90	1445	1	1					2	
S-66 (0'-2')	10/10/90	0830	1						1	
S-69 (0'-2')	10/10/90	0930	1						1	
S-3 (3'-5')	10/10/90	1345		1					1	
S-9 (3-4.5)	10/10/90	1550		1					1	
S-66 (3'-5')	10/10/90	0900		1					1	

Relinquished by:(Signature)	For	Date	Time	Received by:(Signature)	For	Date	Time
Joseph Dunne	ROUX ASSOC	10/11/90	1640				
Relinquished by:(Signature)	For	Date	Time	Received by:(Signature)	For	Date	Time
Relinquished by:(Signature)	For	Date	Time	Received by:(Signature)	For	Date	Time

Delivery Method:

Comments:

ROUX

CHAIN OF CUSTODY

Nº 087 Y

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PROJECT NAME: SUNNYSIDE / AMTRAK.
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD QUEENS NY.
SAMPLER(S): V.S / B.W/H.G.

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED		PHC CLEARGLASS-SOIL	PCB CLEARGLASS SOIL	MS/MSD CLEARGLASS-SOIL	VOC 40 ML VIALS WATER			TOTAL BOTTLES	NOTES
S-24 (0-2')	10/08/90	14-30	1							1	
S-24 (9-11')	10/08/90	1620	1							1	
S-74 (0-2')	10/08/90	8.35	1	1						2	
S-74 (6-8')	10/08/90	9.50	1							1	
S-74 (12-14')	10/08/90	1015	1							1	
S-77 (0-2')	10/08/90	11.00	1	1						2	
S-77 (13-15')	10/08/90	14.30	1							1	
S-75 (0-2')	10/08/90	10.10	1	1						2	
S-81 (0-2')	10/09/90	13.30	1							1	
S-28 (0-2')	10/09/90	1400	1							1	
S-28 (0-2') MS/MSD	10/09/90	1400			1					1	
FB-1 · SS	10/09/90	1630				2				2	FIELD BLANK SPLIT SPOON
FB-2 · PD	10/09/90	1630				2				2	FIELD BLANK POST DIGGER
TB-1	9/28/90	—				2				2	TRIP BLANK

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Joseph Demuro	Roux Assoc	10/9/90	1705				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD

COMMENTS

ROUX

CHAIN OF CUSTODY

Nº 089 Y

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775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK (SUNNYSIDE YARD)
PROJECT NUMBER: 05509 Y
PROJECT LOCATION: SUNNYSIDE YARD (NY).
SAMPLER(S): VIRESH SINGH / BRIAN WOODS.

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC						TOTAL BOTTLES	NOTES
MW-33 (0-2')	05/10/90	0835	1						1	
S-21 (0-2')	05/10/90	1500	1						1	
S-21 (6-8')	05/10/90	1520	1						1	
S-23 (0-2')	05/10/90	1140	1						1	
S-23 (8-10')	05/10/90	1300	1						1	
These are all duplicates				10/05/90						
									5	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Viresh Singh	Roux Assoc.	10/05/90	600	RECEIVED			
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RECEIVED RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

ROUX

CHAIN OF CUSTODY

№ 080 Y

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK
PROJECT NUMBER: 05509Y
PROJECT LOCATION: SUNNYSIDE YARD NY
SAMPLER(S): BRIAN WOODS / VIRESH SINGH

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED		PHC	TCL	MS/MSD				TOTAL BOTTLES	NOTES
S-29 0'-2'	10/3/90	0910	1			1				1	1
S-79 0'-2'	10/3/90	1220	1							1	
S-80 0'-2	10/3/90	1400	1							1	
S-80 2'-4'	10/3/90	1405	1		1					1	
MW-32 0-2'	10/4/90	0900	1							1	
S-71 0'-2'	10/4/90	1140	1							1	
S-71 6'-8'	10/4/90	1305	1							1	
S-70 0'-2'	10/4/90	1335	1							1	
S-70 6'-8'	10/4/90	1430	1							1	
S-72 0'-2'	10/4/90	1515	1							1	
S-72 6'-8'	10/4/90	1530	1							1	
S-73 0'-2'	10/4/90	1710	1							1	
S-29 0-2' MS/MSD	10/3/90	0910	1			1				1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
[signature]	ROUX ASSOCIATES	10/4/90		RECEIVED BY			
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDERAL EXPRESS

COMMENTS:

ROUX

CHAIN OF CUSTODY

№ 074 Y

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

ANALYSES

PAGE OF

PROJECT NAME	PROJECT NUMBER
AMTRAK	05509 Y

PROJECT LOCATION: SUNNYSIDE YARD (NY)

SAMPLER(S): BRIAN WOOD / VIRESH SINGH

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED		PHC (1501)	TCL (5031)					TOTAL BOTTLES	NOTES
S-85 (1-3)	10/02/90	12:15	X							1	
S-86 (0.5-2.5)	10/02/90	13:10	X							1	
S-87 (0.5-2.5)	10/01/90	14:00	X							1	
S-88 (5-7)	10/01/90	12:45	X							2	
S-89 (1-3)	10/01/90	13:30	X							1	
S-90 (1-3)	10/01/90	16:30	X	X						2	
S-91 (6-7)	10/02/90	09:30	X							1	
S-92 (3-5)	10/02/90	11:00	X							1	
S-27 (0.5-2.5)	10/02/90	15:15	X							1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
	ROUX ASSOC	10/02/90	1630	Received by			
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
				Received by			
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
				Received by			

DELIVERY METHOD	COMMENTS
FEDERAL EXPRESS	

ROUX

CHAIN OF CUSTODY

Nº 143 Y

Consulting Ground-Water Geologists & Engineers
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(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK - SUNNYSIDE YARD
PROJECT NUMBER: 055094
PROJECT LOCATION: QUEENS, NY
SAMPLER(S): HG, CZ

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (1 LITER AMBER)	PCB (1 LITER AMBER)	TCL BNA/PEST/PCB (1 LITER AMBER)	TCL METALS (125 ML PLASTIC HNO3)	TCL VOC (40 ML VIALS)	TOTAL BOTTLES	NOTES
MW-28	1/3/98	1630			1			1	
TRIP BLANK-1	1/3/98	—	1		1	1	2	5	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Joseph Dunn	(ROUX)	1/3/98	1800				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FEDEX

COMMENTS: AIRBILL # 860492712

ROUX

CHAIN OF CUSTODY

Nº 144 Y

Consulting Ground-Water Geologists & Engineers
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PROJECT NAME: AMTRAK-SUNNYSIDE YARD
PROJECT NUMBER: 055094
PROJECT LOCATION: QUEENS, NY
SAMPLER(S): HG, CZ, JD, VS

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (1 LITER AMBER)	PCB (1 LITER AMBER)	TCL: PEST/PCB/BNA (4 LITER AMBER)	TCL: METALS (125 ML PLASTIC) HNO3	TCL: VOC (40 ML VIALS)		TOTAL BOTTLES	NOTES
MW-24	1/3/96	1215	1	1					2	
MW-26	"	1035	1		1	1	2		5	
MW-28	"	1630	1			1	2		4	
MW-29	"	1530	1		1	1	2		5	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Joseph Dunn	RAX	1/3/96	1800				

DELIVERY METHOD: FED EX

COMMENTS: AIRBILL # - 8604922734

ROUX

CHAIN OF CUSTODY

No: 142 Y

Consulting Ground-Water Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
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PROJECT NAME: AMTRAK - SUNNYSIDE YARD
PROJECT NUMBER: 055094
PROJECT LOCATION: QUEENS, NY
SAMPLER(S): HG, CZ

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	ANALYSES: PHC (1 LITER AMBER)	PCB (1 LITER AMBER)	TCL: PEST/PCB/BNA (4 LITER AMBER)	TCL: METALS (125 ML PLASTIC) HNO3	TCL: VOC (40 ML VIALS)		TOTAL BOTTLES	NOTES
MW-30	1/3/90	1130	1	1					2	
MW-32		1230	1		1	1	2		5	
MW-34		1045	1	1					2	
FB-1 (FIELD BLANK-1)		0820	1		1	1	2		5	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Joseph Dunne	ROUX	1/3/90	1800				
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FED EX

COMMENTS: AIR BILL # 8604922362

ROUX

CHAIN OF CUSTODY

№ 159 Y

Consulting Ground-Water Geologists & Engineers
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PROJECT NAME: ANTHONY

PROJECT NUMBER: 05509G

PROJECT LOCATION: Sunnyside Rd, Queens, NY.

SAMPLER(S): R.G., V.S., C.Z.

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PAH (1 LITER AMBER)	PCB (1 LITER AMBER)	TCL: BNA/PEST/PCB (4 LITER AMBER)	AL: METALS (125 ml. PLASTIC)	TCL: VOC (40 ML VIALS)	MS/MSD (PAH/PCB) (1 LITER AMBER)	TOTAL BOTTLES	NOTES
MW-~~#~~ 21	1/4/91							4	4	
MW-25	↓		1		1	1	2		5	
~~B~~EP-1	↓		1	1					2	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Nancy Gregory	Roux	1/4/91					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FED Ex.

COMMENTS: Air Bill # 860492653

ROUX

CHAIN OF CUSTODY

№ 156 Y

Consulting Ground-Water Geologists & Engineers
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HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK

PROJECT NUMBER: 05509.4

PROJECT LOCATION: Sunnyside Yd. Queens, N.Y.

SAMPLER(S): H.G. V.S., C.Z

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PAH (1 Liter Amber)	PCB (1 Liter Amber)	MS/MSD (PAH/PCB (2 Liter Amber))				TOTAL BOTTLES	NOTES
MW-27			1	1	4				6	
MW-31			1	1					2	
REP-2			1	1					2	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Tony Gregory	Roux	1/4/[illegible]					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FED EX

COMMENTS: Air Bill # 860492266 4

ROUX

CHAIN OF CUSTODY

№ 154 Y

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PROJECT NAME: AMTRAK
PROJECT NUMBER: 05509Y
PROJECT LOCATION: Sunnyside Yd Queens, N.Y.
SAMPLER(S): HG. V.S., CZ

ANALYSES — PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PNE (1 LITER AMBER)	AB (1 LITER AMBER)	TCL: BNA (EST) PCB (4 LITER AMBER)	TCL: Metals (125 ml plastic)	TCL: VOC (40 mL vial)	MS / MSD	TOTAL # OF BOTTLES SUBMITTED FOR EACH SAMPLE	NOTES
MW-33			1		1	1	2	7	12	
REP-3 (TCL)					1	1	2		4	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
[signature]	Roux	1/4/96					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FED EX

COMMENTS: AIR Bill # 8604922616

ROUX

CHAIN OF CUSTODY

Nº 158 Y

Consulting Ground-Water Geologists & Engineers
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(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK

PROJECT NUMBER: 055094

PROJECT LOCATION: Sunnyside Yd., Queens, N.Y.

SAMPLER(S): V.S., C.Z., M.G.

ANALYSES

PAGE OF

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	PHC (Liter Amber)	PCB (Liter Amber)	TCL: BNA/Pest./PCB (4 Liter Amber)	TCL: Metals (125 ml. plastic #16)	TCL: VOC (40 ml. Vials)		TOTAL BOTTLES	NOTES
TRIP BLANK -2	1/4/90		1		1	1	2		5	
FB-2 (Field Blank-2)			1		1	1	2		5	
MW-19			1	~~VOID~~	1	1	2		5	
MW-21			1	1					2	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
Kenny Gregory	Roux	1/4/90					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME

DELIVERY METHOD: FED. EX

COMMENTS

AIR Bill # 860492262 0

ROUX

CHAIN OF CUSTODY

No. 148 Y

PAGE / OF 3

Consulting Ground-Water
Geologists & Engineers
ROUX ASSOCIATES INC
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK

PROJECT NUMBER: 05509Y

PROJECT LOCATION: SUNNYSIDE YD. QUEENS

SAMPLER(S): AG. P.B. V.S. CZ

ANALYSES

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	TPH (1 Liter Amber)	PCB (1 Liter Amber) Specific Gravity Oil Viscosity Sediment	TCL: BNA PCB (1 Liter Amber)	TCL: Metals (125 ml. Plastic)	TCL: VOC (40 ml Vials)	PCB (1 Liter Amber) Water	TOTAL BOTTLES	NOTES
TRIP BLANK -3	1/7/91	0830	1	~~[illegible]~~	1	1	2		5	
FIELD BLANK -3		0830	1		1	1	2		5	
MW-5		1245		1					1	
MW-7		1220		1					1	
MW-16		1315		1					1	
MW-17		1330		1					1	
MW-20		1050		1					1	
RGC TANK #1		1420		1					1	
RGC TANK #2		1405						1	1	

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME
[signature]	Roux	1/7/91	19:00				

DELIVERY METHOD: FED EX

COMMENTS: Air Bill # 8604922550

ROUX

CHAIN OF CUSTODY

№ 00226 Y

ROUX ASSOCIATES INC
Consulting Ground-Water Geologists & Engineers
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: Amtrak

PROJECT NUMBER: 055094

PROJECT LOCATION: Sunnyside yd Queens

SAMPLER(S): HG, PB, VS, CZ

ANALYSES

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED		SAMPLE MATRIX WATER	VOA (1 Liter Amber)	PCB (1 Liter Amber)	TCL: pest/BNA/PCB (1 Liter Amber)	TCL: metals (125 ml plastic)	VOA (40 ml Vials)	TOTAL BOTTLES	NOTES
MW-13	1/7/90	10:45			1		1	1	2	5	
MW-22		12:35			1	1				2	
MW-23		17:15			1		1	1	2	5	
REP-4					1	1				2	

RELINQUISHED BY: (SAMPLER'S SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
H Gregory	Roux	1/7/91	19:00	Y					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD: FED Ex

ANALYTICAL LABORATORY: Env. Systems

COMMENTS: AIR BILL # 8604922550

ROUX

CHAIN OF CUSTODY

Nº 00230 Y

ROUX ASSOCIATES INC 775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216
Consulting Ground-Water Geologists & Engineers

PROJECT NAME: AMTRAK
PROJECT NUMBER: 0550991
PROJECT LOCATION: Sunny Side Yd Queens
SAMPLER(S): HG PB VS, CZ

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX: WATER	PHC (1 Liter Amber)	TCL pest/PCB/BNA (4 Liter Amber)	TCL: Metals (125 ML. Plastic)	TCL: VOC (40 ML. Vials)		TOTAL BOTTLES	NOTES
MW-1	1/7/91	15:30		1	1	1	2		5	
MW-9		13:50		1	1	1	2		5	

RELINQUISHED BY: (SAMPLER'S SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
H. Gregory	Roux	1/7/91	1900	Y					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD: Fed Exp

ANALYTICAL LABORATORY: Envirosystems

COMMENTS: Air bill # 8604922550

ROUX

CHAIN OF CUSTODY

№ 00231 Y

ROUX ASSOCIATES INC
Consulting Ground-Water Geologists & Engineers
775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK - Sunnyside Yd.
PROJECT NUMBER: 05509 J
PROJECT LOCATION: Queens, N.Y.
SAMPLER(S): H G

ANALYSES — PAGE / OF /

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PHC (1 Liter Amber)	PCB (1 Liter Amber)				TOTAL BOTTLES	NOTES
MW - 3	2/21/91	08:10	WATER	1	1				2	

RELINQUISHED BY: (SAMPLER'S SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	Roux Assoc	2/21/91		Y OR N					
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD: FED. EXP.

ANALYTICAL LABORATORY: ENVIROSYSTEMS INC

COMMENTS: Air Bill # 8604922583

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-90	S-80(2-4)	S-80(2-4)R	S-82(0-2)	S-82(0-2)R	S-30(0-2)
LAB SAMPLE ID:	90102164	90102243	90102243	90102374	90102374	90102376
SAMPLE DATE:	10/01/90	10/03/90	10/03/90	10/16/90	10/16/90	10/16/90
RECEIVED DATE:	10/03/90	10/05/90	10/05/90	10/18/90	10/18/90	10/18/90
ANALYSIS DATE:	10/09/90	10/09/90	10/09/90	10/19/90	10/19/90	10/19/90
FILE NAME:	102164R	102243R	102243RE	102374	102374R	102376
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	7	4	4	10	10	10
DILUTION FACTOR:	1.0	2.0	2.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Acetone	80	229	308	29	20	33
Benzene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Bromodichloromethane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Bromoform	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Bromomethane	11 U	21 U	21 U	11 U	11 U	11 U
2-Butanone	11 U	21 U	21 U	11 U	11 U	11 U
Carbon Disulfide	5.1 J	19	17	7.1	4.4 J	6.0 U
Carbon Tetrachloride	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Chlorobenzene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Chloroethane	11 U	21 U	21 U	11 U	11 U	11 U
2-Chloroethylvinylether	11 U	21 U	21 U	11 U	11 U	11 U
Chloroform	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Chloromethane	11 U	21 U	21 U	11 U	11 U	11 U
Dibromochloromethane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,3 Dichlorobenzene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,2 Dichlorobenzene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,4 Dichlorobenzene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,2-Dichloroethane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,1-Dichloroethane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,1-Dichloroethene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,2-Dichloroethene (total)	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,2-Dichloropropane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
cis-1,3-Dichloropropene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Ethylbenzene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
2-Hexanone	11 U	21 U	21 U	11 U	11 U	11 U
4-Methyl-2-Pentanone	11 U	21 U	21 U	11 U	11 U	11 U
Methylene Chloride	26	302	258	26	21	6.0 U
Styrene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,1,2,2-Tetrachloroethane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Tetrachloroethene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Toluene	13	30	31	4.8 J	2.8 J	6.0 U
Trans-1,3-Dichloropropene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,1,1-Trichloroethane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
1,1,2-Trichloroethane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Trichloroethene	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U
Trichlorofluoromethane	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-90	S-80(2-4)	S-80(2-4)R	S-82(0-2)	S-82(0-2)R	S-30(0-2)
LAB SAMPLE ID:	90102164	90102243	90102243	90102374	90102374	90102376
SAMPLE DATE:	10/01/90	10/03/90	10/03/90	10/16/90	10/16/90	10/16/90
RECEIVED DATE:	10/03/90	10/05/90	10/05/90	10/18/90	10/18/90	10/18/90
ANALYSIS DATE:	10/09/90	10/09/90	10/09/90	10/19/90	10/19/90	10/19/90
FILE NAME:	102164R	102243R	102243RE	102374	102374R	102376
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	7	4	4	10	10	10
DILUTION FACTOR:	1.0	2.0	2.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Vinyl Acetate	11 U	21 U	21 U	11 U	11 U	11 U
Vinyl Chloride	11 U	21 U	21 U	11 U	11 U	11 U
Xylenes (total)	5.0 U	10 U	10 U	6.0 U	6.0 U	6.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-22(0-2)	S-64(2-3)R	S-17(0-2)	S-49(2-4)	S-47(2-4)	S-62(0-2)
LAB SAMPLE ID:	90102382	90102403	90102423	90102425	90102433	90102502
SAMPLE DATE:	10/17/90	10/18/90	10/19/90	10/19/90	10/19/90	10/24/90
RECEIVED DATE:	10/18/90	10/19/90	10/20/90	10/20/90	10/20/90	10/26/90
ANALYSIS DATE:	10/19/90	10/19/90	10/23/90	10/23/90	10/23/90	10/29/90
FILE NAME:	102382	102403R	102423	102425	102433	102502
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	18	16	31	6	7	10
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Acetone	12 U	15	35	20	11 U	24
Benzene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Bromodichloromethane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Bromoform	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Bromomethane	12 U	12 U	14 U	11 U	11 U	11 U
2-Butanone	12 U	12 U	14 U	11 U	11 U	11 U
Carbon Disulfide	7.7	6.0 U	7.0 U	5.0 U	5.0 U	11
Carbon Tetrachloride	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Chlorobenzene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Chloroethane	12 U	12 U	14 U	11 U	11 U	11 U
2-Chloroethylvinylether	12 U	12 U	14 U	11 U	11 U	11 U
Chloroform	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Chloromethane	12 U	12 U	14 U	11 U	11 U	11 U
Dibromochloromethane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,3 Dichlorobenzene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,2 Dichlorobenzene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,4 Dichlorobenzene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,2-Dichloroethane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,1-Dichloroethane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,1-Dichloroethene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,2-Dichloroethene (total)	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,2-Dichloropropane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
cis-1,3-Dichloropropene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Ethylbenzene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
2-Hexanone	12 U	12 U	14 U	11 U	11 U	11 U
4-Methyl-2-Pentanone	12 U	12 U	14 U	11 U	11 U	11 U
Methylene Chloride	32	6.0 U	7.0 U	3.6 J	5.0 U	14
Styrene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,1,2,2-Tetrachloroethane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Tetrachloroethene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Toluene	4.8 J	6.0 U	7.0 U	5.0 U	5.0 U	11
Trans-1,3-Dichloropropene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,1,1-Trichloroethane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
1,1,2-Trichloroethane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Trichloroethene	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U
Trichlorofluoromethane	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-22(0-2)	S-64(2-3)R	S-17(0-2)	S-49(2-4)	S-47(2-4)	S-62(0-2)
LAB SAMPLE ID:	90102382	90102403	90102423	90102425	90102433	90102502
SAMPLE DATE:	10/17/90	10/18/90	10/19/90	10/19/90	10/19/90	10/24/90
RECEIVED DATE:	10/18/90	10/19/90	10/20/90	10/20/90	10/20/90	10/26/90
ANALYSIS DATE:	10/19/90	10/19/90	10/23/90	10/23/90	10/23/90	10/29/90
FILE NAME:	102382	102403R	102423	102425	102433	102502
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	18	16	31	6	7	10
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Vinyl Acetate	12 U	12 U	14 U	11 U	11 U	11 U
Vinyl Chloride	12 U	12 U	14 U	11 U	11 U	11 U
Xylenes (total)	6.0 U	6.0 U	7.0 U	5.0 U	5.0 U	6.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-61(5-7)	S-43(0-2)	S-41A(3-5)	MW-25(4-6)	S-53(5-7)	MW-34(0-2)
LAB SAMPLE ID:	90102505	90112583	90112600	90112698	90112732	90112772
SAMPLE DATE:	10/24/90	11/05/90	11/07/90	11/17/90	11/18/90	11/29/90
RECEIVED DATE:	10/26/90	11/07/90	11/09/90	11/19/90	11/21/90	11/30/90
ANALYSIS DATE:	10/29/90	11/13/90	11/13/90	11/21/90	11/21/90	11/30/90
FILE NAME:	102505	112583	112600	112698	112732	112772
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	12	11	14	8	4	7
DILUTION FACTOR:	1.0	1.0	5.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Acetone	53	11 U	293	18	38	11 U
Benzene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Bromoform	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Bromomethane	11 U	11 U	58 U	11 U	10 U	11 U
2-Butanone	11 U	11 U	58 U	11 U	10 U	11 U
Carbon Disulfide	10	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Chloroethane	11 U	11 U	58 U	11 U	10 U	11 U
2-Chloroethylvinylether	11 U	11 U	58 U	11 U	10 U	11 U
Chloroform	6.0 U	3.8 J	29 U	5.0 U	5.0 U	5.0 U
Chloromethane	11 U	11 U	58 U	11 U	10 U	11 U
Dibromochloromethane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,3 Dichlorobenzene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,2 Dichlorobenzene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,4 Dichlorobenzene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (total)	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	6.0 U	6.0 U	67	5.0 U	5.0 U	5.0 U
2-Hexanone	11 U	11 U	58 U	11 U	10 U	11 U
4-Methyl-2-Pentanone	11 U	11 U	58 U	11 U	10 U	11 U
Methylene Chloride	14	6.0 U	29 U	3.4 J	4.3 J	5.0 U
Styrene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Toluene	7.6	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Trans-1,3-Dichloropropene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Trichloroethene	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	6.0 U	6.0 U	29 U	5.0 U	5.0 U	5.0 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-61(5-7)	S-43(0-2)	S-41A(3-5)	MW-25(4-6)	S-53(5-7)	MW-34(0-2)
LAB SAMPLE ID:	90102505	90112583	90112600	90112698	90112732	90112772
SAMPLE DATE:	10/24/90	11/05/90	11/07/90	11/17/90	11/18/90	11/29/90
RECEIVED DATE:	10/26/90	11/07/90	11/09/90	11/19/90	11/21/90	11/30/90
ANALYSIS DATE:	10/29/90	11/13/90	11/13/90	11/21/90	11/21/90	11/30/90
FILE NAME:	102505	112583	112600	112698	112732	112772
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	12	11	14	8	4	7
DILUTION FACTOR:	1.0	1.0	5.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Vinyl Acetate	11 U	11 U	58 U	11 U	10 U	11 U
Vinyl Chloride	11 U	11 U	58 U	11 U	10 U	11 U
Xylenes (total)	6.0 U	4.4 J	137	5.0 U	5.0 U	5.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-38(2-4)	S-39(2-4)	S-35(8-10)	S-37(4-6)	MW-26(9-11)	S-60(4-6)
LAB SAMPLE ID:	90112775	90112779	90122785	90122791	90122809	90122909
SAMPLE DATE:	11/29/90	11/29/90	11/30/90	12/01/90	12/05/90	12/12/90
RECEIVED DATE:	11/30/90	11/30/90	12/01/90	12/03/90	12/01/90	12/12/90
ANALYSIS DATE:	11/30/90	11/30/90	12/07/90	12/07/90	12/07/90	12/17/90
FILE NAME:	112775	112779	122785	122791	122809	122909
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	15	5	13	6	4	3
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Acetone	12 U	11 U	15	16	11	20
Benzene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Bromoform	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	12 U	11 U	11 U	11 U	10 U	10 U
2-Butanone	12 U	11 U	11 U	11 U	10 U	10 U
Carbon Disulfide	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	12 U	11 U	11 U	11 U	10 U	10 U
2-Chloroethylvinylether	12 U	11 U	11 U	11 U	10 U	10 U
Chloroform	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	12 U	11 U	11 U	11 U	10 U	10 U
Dibromochloromethane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,3 Dichlorobenzene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,2 Dichlorobenzene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,4 Dichlorobenzene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (total)	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	12 U	11 U	11 U	11 U	10 U	10 U
4-Methyl-2-Pentanone	12 U	11 U	11 U	11 U	10 U	10 U
Methylene Chloride	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	29
Styrene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Toluene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Trans-1,3-Dichloropropene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-38(2-4)	S-39(2-4)	S-35(8-10)	S-37(4-6)	MW-26(9-11)	S-60(4-6)
LAB SAMPLE ID:	90112775	90112779	90122785	90122791	90122809	90122909
SAMPLE DATE:	11/29/90	11/29/90	11/30/90	12/01/90	12/05/90	12/12/90
RECEIVED DATE:	11/30/90	11/30/90	12/01/90	12/03/90	12/01/90	12/12/90
ANALYSIS DATE:	11/30/90	11/30/90	12/07/90	12/07/90	12/07/90	12/17/90
FILE NAME:	112775	112779	122785	122791	122809	122909
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	15	5	13	6	4	3
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Vinyl Acetate	12 U	11 U	11 U	11 U	10 U	10 U
Vinyl Chloride	12 U	11 U	11 U	11 U	10 U	10 U
Xylenes (total)	6.0 U	5.0 U	6.0 U	5.0 U	5.0 U	5.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-33(4-6)
LAB SAMPLE ID:	90122940
SAMPLE DATE:	12/13/90
RECEIVED DATE:	12/14/90
ANALYSIS DATE:	12/17/90
FILE NAME:	122940
INSTRUMENT ID:	MSB
MATRIX:	SOIL
UNITS:	UG/KG
% MOISTURE:	7
DILUTION FACTOR:	1.0

VOLATILE COMPOUNDS

Acetone	49	
Benzene	5.0	U
Bromodichloromethane	5.0	U
Bromoform	5.0	U
Bromomethane	11	U
2-Butanone	11	U
Carbon Disulfide	5.0	U
Carbon Tetrachloride	5.0	U
Chlorobenzene	5.0	U
Chloroethane	11	U
2-Chloroethylvinylether	11	U
Chloroform	5.0	U
Chloromethane	11	U
Dibromochloromethane	5.0	U
1,3 Dichlorobenzene	5.0	U
1,2 Dichlorobenzene	5.0	U
1,4 Dichlorobenzene	5.0	U
1,2-Dichloroethane	5.0	U
1,1-Dichloroethane	5.0	U
1,1-Dichloroethene	5.0	U
1,2-Dichloroethene (total)	5.0	U
1,2-Dichloropropane	5.0	U
cis-1,3-Dichloropropene	5.0	U
Ethylbenzene	5.0	U
2-Hexanone	11	U
4-Methyl-2-Pentanone	11	U
Methylene Chloride	77	
Styrene	5.0	U
1,1,2,2-Tetrachloroethane	5.0	U
Tetrachloroethene	5.0	U
Toluene	5.0	U
Trans-1,3-Dichloropropene	5.0	U
1,1,1-Trichloroethane	5.0	U
1,1,2-Trichloroethane	5.0	U
Trichloroethene	5.0	U
Trichlorofluoromethane	5.0	U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-33(4-6)
LAB SAMPLE ID:	90122940
SAMPLE DATE:	12/13/90
RECEIVED DATE:	12/14/90
ANALYSIS DATE:	12/17/90
FILE NAME:	122940
INSTRUMENT ID:	MSB
MATRIX:	SOIL
UNITS:	UG/KG
% MOISTURE:	7
DILUTION FACTOR:	1.0

VOLATILE COMPOUNDS

Vinyl Acetate	11	U
Vinyl Chloride	11	U
Xylenes (total)	5.0	U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-90	S-80(2-4)	S-82(0-2)	S-30(0-2)	S-22(0-2)	S-22(0-2)R
LAB SAMPLE ID:	90102164	90102243	90102374	90102376	90102382	90102382
SAMPLE DATE:	10/01/90	10/03/90	10/16/91	10/16/90	10/17/90	10/17/90
RECEIVED DATE:	10/03/90	10/05/90	10/18/90	10/18/90	10/18/90	10/18/90
EXTRACTION DATE:	10/09/90	10/09/90	10/18/90	10/18/90	10/18/90	10/18/90
ANALYSIS DATE:	11/02/90	11/02/90	11/05/90	10/19/90	10/19/90	11/05/90
FILE NAME:	102164R	102243R	102374R	102376	102382	102382R
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	7	4	10	10	18	18
SEMIVOLATILE COMPOUNDS						
Acenaphthene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Acenaphthylene	1770 U	1720 U	1830 U	370 U	337 J	2010 U
Anthracene	1770 U	1720 U	1830 U	370 U	307 J	2010 U
Benzidine	3230 U	3130 U	3330 U	670 U	730 U	3660 U
Benzo(a)Anthracene	1770 U	1720 U	1830 U	370 U	404	2010 U
Benzo(a)Pyrene	1770 U	1720 U	1830 U	370 U	699	2010 U
Benzo(b+k)fluoranthenes	1770 U	1720 U	1233 J	370 U	2427	2010 U
Benzo(g,h,i)Perylene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Benzoic Acid	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
Benzyl Alcohol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
4-Bromophenyl-phenylether	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Butylbenzylphthalate	1770 U	1720 U	1830 U	370 U	234 J	2010 U
4-Chloro-3-Methylphenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
4-Chloroaniline	1770 U	1720 U	1830 U	370 U	400 U	2010 U
bis(2-Chloroethoxy)Methane	1770 U	1720 U	1830 U	370 U	400 U	2010 U
bis(2-Chloroethyl)Ether	1770 U	1720 U	1830 U	370 U	400 U	2010 U
bis(2-Chloroisopropyl)Ether	1770 U	1720 U	1830 U	370 U	400 U	2010 U
2-Chloronaphthalene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
2-Chlorophenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
4-Chlorophenyl-phenylether	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Chrysene	1770 U	1720 U	1830 U	370 U	913	2010 U
Di-n-Butylphthalate	1770 U	875 B J	1830 U	555	898	2010 U
Di-n-Octyl Phthalate	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Dibenz(a,h)Anthracene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Dibenzofuran	1770 U	1720 U	1830 U	370 U	400 U	2010 U
1,2-Dichlorobenzene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
1,3-Dichlorobenzene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
1,4-Dichlorobenzene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
3,3'-Dichlorobenzidine	3550 U	3440 U	3670 U	730 U	805 U	4020 U
2,4-Dichlorophenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Diethylphthalate	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Dimethyl Phthalate	1770 U	1720 U	1830 U	370 U	400 U	2010 U
2,4-Dimethylphenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
4,6-Dinitro-2-Methylphenol	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
2,4-Dinitrophenol	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
2,4-Dinitrotoluene	1770 U	1720 U	1830 U	370 U	400 U	2010 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-90	S-80(2-4)	S-82(0-2)	S-30(0-2)	S-22(0-2)	S-22(0-2)R
LAB SAMPLE ID:	90102164	90102243	90102374	90102376	90102382	90102382
SAMPLE DATE:	10/01/90	10/03/90	10/16/91	10/16/90	10/17/90	10/17/90
RECEIVED DATE:	10/03/90	10/05/90	10/18/90	10/18/90	10/18/90	10/18/90
EXTRACTION DATE:	10/09/90	10/09/90	10/18/90	10/18/90	10/18/90	10/18/90
ANALYSIS DATE:	11/02/90	11/02/90	11/05/90	10/19/90	10/19/90	11/05/90
FILE NAME:	102164R	102243R	102374R	102376	102382	102382R
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	7	4	10	10	18	18
SEMIVOLATILE COMPOUNDS						
2,6-Dinitrotoluene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
bis(2-Ethylheryl)Phthalate	1770 U	1720 U	1830 U	407	1048	1500 B J
Fluoranthene	1770 U	1720 U	1830 U	370 U	1878	2585
Fluorene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Hexachlorobenzene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Hexachlorobutadiene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Hexachlorocyclopentadiene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Hexachloroethane	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Indeno(1,2,3-cd)Pyrene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Isophorone	1770 U	1720 U	1830 U	370 U	400 U	2010 U
2-Methylnaphthalene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
4-Methylphenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
2-Methylphenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
N-Nitroso-Di-n-Propylamine	1770 U	1720 U	1830 U	370 U	400 U	2010 U
N-Nitrosodimethylamine	1770 U	1720 U	1830 U	370 U	400 U	2010 U
N-Nitrosodiphenylamine (1)	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Naphthalene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
2-Nitroaniline	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
4-Nitroaniline	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
3-Nitroaniline	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
Nitrobenzene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
4-Nitrophenol	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
2-Nitrophenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Pentachlorophenol	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
Phenanthrene	1770 U	1720 U	1830 U	370 U	406	2010 U
Phenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U
Pyrene	1770 U	1720 U	1830 U	370 U	1011	1270 J
1,2,4-Trichlorobenzene	1770 U	1720 U	1830 U	370 U	400 U	2010 U
2,4,5-Trichlorophenol	8600 U	8330 U	8890 U	1780 U	1950 U	9760 U
2,4,6-Trichlorophenol	1770 U	1720 U	1830 U	370 U	400 U	2010 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-64(2-3)	S-17(0-2)	S-17(0-2)R	S-49(2-4)	S-49(2-4)R	S-47(2-4)
LAB SAMPLE ID:	90102403	90102423	90102423	90102425	90102425	90102433
SAMPLE DATE:	10/18/90	10/19/90	10/19/90	10/19/90	10/19/90	10/19/90
RECEIVED DATE:	10/18/90	10/20/90	10/20/90	10/20/90	10/20/90	10/20/90
EXTRACTION DATE:	10/19/90	10/24/90	10/24/90	10/24/90	10/24/90	10/24/90
ANALYSIS DATE:	11/02/90	10/25/90	11/05/90	10/25/90	11/05/90	10/25/90
FILE NAME:	102403R	102423	102423R	102425	102425R	102433
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	16	31	31	6	6	7
SEMIVOLATILE COMPOUNDS						
Acenaphthene	3930 U	480 U	2390 U	350 U	3510 U	355 U
Acenaphthylene	3930 U	480 U	2390 U	350 U	3510 U	355 U
Anthracene	3930 U	480 U	2390 U	350 U	3510 U	355 U
Benzidine	7140 U	890 U	4350 U	640 U	640 U	645 U
Benzo(a)Anthracene	3930 U	480 U	2390 U	350 U	3510 U	355 U
Benzo(a)Pyrene	3930 U	480 U	2390 U	415	3510 U	355 U
Benzo(b+k)fluoranthenes	3930 U	416 J	2390 U	350 U	3510 U	257 J
Benzo(g,h,i)Perylene	3930 U	480 U	2390 U	350 U	3510 U	355 U
Benzoic Acid	19000 U	2320 U	11600 U	1700 U	17000 U	1720 U
Benzyl Alcohol	3930 U	480 U	2390 U	350 U	3510 U	355 U
4-Bromophenyl-phenylether	3930 U	480 U	2390 U	350 U	3510 U	355 U
Butylbenzylphthalate	3930 U	480 U	2390 U	350 U	3510 U	355 U
4-Chloro-3-Methylphenol	3930 U	480 U	2390 U	350 U	3510 U	355 U
4-Chloroaniline	3930 U	480 U	2390 U	350 U	3510 U	355 U
bis(2-Chloroethoxy)Methane	3930 U	480 U	2390 U	350 U	3510 U	355 U
bis(2-Chloroethyl)Ether	3930 U	480 U	2390 U	350 U	3510 U	355 U
bis(2-Chloroisopropyl)Ether	3930 U	480 U	2390 U	350 U	3510 U	355 U
2-Chloronaphthalene	3930 U	480 U	2390 U	350 U	3510 U	355 U
2-Chlorophenol	3930 U	480 U	2390 U	350 U	3510 U	355 U
4-Chlorophenyl-phenylether	3930 U	480 U	2390 U	350 U	3510 U	355 U
Chrysene	3930 U	342 J	2390 U	350 U	3510 U	355 U
Di-n-Butylphthalate	3930 U	462 J	2390 U	350 U	3510 U	263 J
Di-n-Octyl Phthalate	3930 U	480 U	2390 U	350 U	3510 U	355 U
Dibenz(a,h)Anthracene	3930 U	480 U	2390 U	350 U	3510 U	355 U
Dibenzofuran	3930 U	480 U	2390 U	350 U	3510 U	355 U
1,2-Dichlorobenzene	3930 U	480 U	2390 U	350 U	3510 U	355 U
1,3-Dichlorobenzene	3930 U	480 U	2390 U	350 U	3510 U	355 U
1,4-Dichlorobenzene	3930 U	480 U	2390 U	350 U	3510 U	355 U
3,3'-Dichlorobenzidine	7860 U	960 U	4780 U	700 U	7020 U	710 U
2,4-Dichlorophenol	3930 U	480 U	2390 U	350 U	3510 U	355 U
Diethylphthalate	3930 U	480 U	2390 U	350 U	3510 U	355 U
Dimethyl Phthalate	3930 U	480 U	2390 U	350 U	3510 U	355 U
2,4-Dimethylphenol	3930 U	480 U	2390 U	350 U	3510 U	355 U
4,6-Dinitro-2-Methylphenol	19000 U	2320 U	11600 U	1700 U	17000 U	1720 U
2,4-Dinitrophenol	19000 U	2320 U	11600 U	1700 U	17000 U	1720 U
2,4-Dinitrotoluene	3930 U	480 U	2390 U	350 U	3510 U	355 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-47(2-4)R	S-62(0-2)	S-61(5-7)	S-43(0-2)	S-41A(3-5)	MW-25(4-6)
LAB SAMPLE ID:	90102433	90102502	90102505	90112583	90112600	90112698
SAMPLE DATE:	10/19/90	10/24/90	10/24/90	11/05/90	11/07/90	11/17/90
RECEIVED DATE:	10/20/90	10/26/90	10/26/90	11/07/90	11/09/90	11/19/90
EXTRACTION DATE:	10/24/90	10/30/90	10/30/90	11/12/90	11/12/90	11/20/90
ANALYSIS DATE:	11/05/90	11/02/90	11/02/90	11/19/90	11/19/90	12/26/90
FILE NAME:	102433R	102502	102505	112583	112600	112698
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	7	10	12	11	14	8
SEMIVOLATILE COMPOUNDS						
Acenaphthene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Acenaphthylene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Anthracene	3550 U	3670 U	3750 U	1966 J	3840 U	360 U
Benzidine	6450 U	6670 U	6829 U	6749 U	6980 U	650 U
Benzo(a)Anthracene	3550 U	3670 U	3750 U	12600	3840 U	360 U
Benzo(a)Pyrene	3550 U	3670 U	3750 U	5760	3840 U	360 U
Benzo(b+k)fluoranthenes	3550 U	3670 U	3750 U	7400	3840 U	360 U
Benzo(g,h,i)Perylene	3550 U	3670 U	3750 U	5800	3840 U	360 U
Benzoic Acid	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
Benzyl Alcohol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
4-Bromophenyl-phenylether	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Butylbenzylphthalate	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
4-Chloro-3-Methylphenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
4-Chloroaniline	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
bis(2-Chloroethoxy)Methane	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
bis(2-Chloroethyl)Ether	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
bis(2-Chloroisopropyl)Ether	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
2-Chloronaphthalene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
2-Chlorophenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
4-Chlorophenyl-phenylether	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Chrysene	3550 U	3670 U	3750 U	10100	3840 U	360 U
Di-n-Butylphthalate	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Di-n-Octyl Phthalate	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Dibenz(a,h)Anthracene	3550 U	3670 U	3750 U	2090 J	3840 U	360 U
Dibenzofuran	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
1,2-Dichlorobenzene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
1,3-Dichlorobenzene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
1,4-Dichlorobenzene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
3,3'-Dichlorobenzidine	7100 U	7330 U	6500 U	7420 U	7670 U	720 U
2,4-Dichlorophenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Diethylphthalate	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Dimethyl Phthalate	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
2,4-Dimethylphenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
4,6-Dinitro-2-Methylphenol	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
2,4-Dinitrophenol	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
2,4-Dinitrotoluene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-47(2-4)R	S-62(0-2)	S-61(5-7)	S-43(0-2)	S-41A(3-5)	MW-25(4-6)
LAB SAMPLE ID:	90102433	90102502	90102505	90112583	90112600	90112698
SAMPLE DATE:	10/19/90	10/24/90	10/24/90	11/05/90	11/07/90	11/17/90
RECEIVED DATE:	10/20/90	10/26/90	10/26/90	11/07/90	11/09/90	11/19/90
EXTRACTION DATE:	10/24/90	10/30/90	10/30/90	11/12/90	11/12/90	11/20/90
ANALYSIS DATE:	11/05/90	11/02/90	11/02/90	11/19/90	11/19/90	12/26/90
FILE NAME:	102433R	102502	102505	112583	112600	112698
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	7	10	12	11	14	8
SEMIVOLATILE COMPOUNDS						
2,6-Dinitrotoluene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
bis(2-Ethylheryl)Phthalate	3550 U	3670 U	3750 U	3710 U	3840 U	680 B
Fluoranthene	3550 U	3670 U	3750 U	19700 ←	3840 U	360 U
Fluorene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Hexachlorobenzene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Hexachlorobutadiene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Hexachlorocyclopentadiene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Hexachloroethane	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Indeno(1,2,3-cd)Pyrene	3550 U	3670 U	3750 U	4640	3840 U	360 U
Isophorone	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
2-Methylnaphthalene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
4-Methylphenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
2-Methylphenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
N-Nitroso-Di-n-Propylamine	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
N-Nitrosodimethylamine	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
N-Nitrosodiphenylamine (1)	3550 U	3670 U	3750 U	954 J	3840 U	360 U
Naphthalene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
2-Nitroaniline	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
4-Nitroaniline	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
3-Nitroaniline	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
Nitrobenzene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
4-Nitrophenol	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
2-Nitrophenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Pentachlorophenol	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
Phenanthrene	3550 U	3670 U	3750 U	11900	3840 U	360 U
Phenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
Pyrene	3550 U	3670 U	3750 U	16500	3840 U	360 U
1,2,4-Trichlorobenzene	3550 U	3670 U	3750 U	3710 U	3840 U	360 U
2,4,5-Trichlorophenol	17200 U	17800 U	18200 U	18000 U	18600 U	1740 U
2,4,6-Trichlorophenol	3550 U	3670 U	3750 U	3710 U	3840 U	360 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-53(5-7)	MW-34(0-2)	S-38(2-4)	S-39(2-4)	S-35(8-10)	S-37(4-6)
LAB SAMPLE ID:	90112732	90112772	90112775	90112779	90122785	90122791
SAMPLE DATE:	11/18/90	11/29/90	11/29/90	11/29/90	11/30/90	12/01/90
RECEIVED DATE:	11/21/90	11/30/90	11/30/90	11/30/90	12/01/90	12/03/90
EXTRACTION DATE:	11/21/90	12/04/90	12/04/90	12/04/90	12/04/90	12/04/90
ANALYSIS DATE:	12/26/90	01/02/91	01/02/91	01/02/91	01/02/91	01/02/91
FILE NAME:	112732	112772	112775	112779	122785	122791
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	4	7	15	5	13	6
SEMIVOLATILE COMPOUNDS						
Acenaphthene	340 U	355 U	390 U	350 U	380 U	350 U
Acenaphthylene	340 U	355 U	390 U	350 U	380 U	350 U
Anthracene	340 U	355 U	390 U	350 U	380 U	350 U
Benzidine	625 U	645 U	705 U	630 U	690 U	640 U
Benzo(a)Anthracene	340 U	441	390 U	350 U	380 U	350 U
Benzo(a)Pyrene	340 U	292 J	390 U	350 U	380 U	350 U
Benzo(b+k)fluoranthenes	340 U	1000	390 U	350 U	380 U	350 U
Benzo(g,h,i)Perylene	340 U	272 J	390 U	350 U	380 U	350 U
Benzoic Acid	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
Benzyl Alcohol	340 U	355 U	390 U	350 U	380 U	350 U
4-Bromophenyl-phenylether	340 U	355 U	390 U	350 U	380 U	350 U
Butylbenzylphthalate	340 U	355 U	390 U	350 U	380 U	350 U
4-Chloro-3-Methylphenol	340 U	355 U	390 U	350 U	380 U	350 U
4-Chloroaniline	340 U	355 U	390 U	350 U	380 U	350 U
bis(2-Chloroethoxy)Methane	340 U	355 U	390 U	350 U	380 U	350 U
bis(2-Chloroethyl)Ether	340 U	355 U	390 U	350 U	380 U	350 U
bis(2-Chloroisopropyl)Ether	340 U	355 U	390 U	350 U	380 U	350 U
2-Chloronaphthalene	340 U	355 U	390 U	350 U	380 U	350 U
2-Chlorophenol	340 U	355 U	390 U	350 U	380 U	350 U
4-Chlorophenyl-phenylether	340 U	355 U	390 U	350 U	380 U	350 U
Chrysene	340 U	538	390 U	350 U	380 U	350 U
Di-n-Butylphthalate	340 U	198 J	390 U	350 U	380 U	350 U
Di-n-Octyl Phthalate	340 U	355 U	390 U	350 U	380 U	350 U
Dibenz(a,h)Anthracene	340 U	355 U	390 U	350 U	380 U	350 U
Dibenzofuran	340 U	355 U	390 U	350 U	380 U	350 U
1,2-Dichlorobenzene	340 U	355 U	390 U	350 U	380 U	350 U
1,3-Dichlorobenzene	340 U	355 U	390 U	350 U	380 U	350 U
1,4-Dichlorobenzene	340 U	355 U	390 U	350 U	380 U	350 U
3,3'-Dichlorobenzidine	690 U	710 U	780 U	695 U	760 U	700 U
2,4-Dichlorophenol	340 U	355 U	390 U	350 U	380 U	350 U
Diethylphthalate	340 U	355 U	390 U	350 U	380 U	350 U
Dimethyl Phthalate	340 U	355 U	390 U	350 U	380 U	350 U
2,4-Dimethylphenol	340 U	355 U	390 U	350 U	380 U	350 U
4,6-Dinitro-2-Methylphenol	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
2,4-Dinitrophenol	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
2,4-Dinitrotoluene	340 U	355 U	390 U	350 U	380 U	350 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-53(5-7)	MW-34(0-2)	S-38(2-4)	S-39(2-4)	S-35(8-10)	S-37(4-6)
LAB SAMPLE ID:	90112732	90112772	90112775	90112779	90122785	90122791
SAMPLE DATE:	11/18/90	11/29/90	11/29/90	11/29/90	11/30/90	12/01/90
RECEIVED DATE:	11/21/90	11/30/90	11/30/90	11/30/90	12/01/90	12/03/90
EXTRACTION DATE:	11/21/90	12/04/90	12/04/90	12/04/90	12/04/90	12/04/90
ANALYSIS DATE:	12/26/90	01/02/91	01/02/91	01/02/91	01/02/91	01/02/91
FILE NAME:	112732	112772	112775	112779	122785	122791
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	4	7	15	5	13	6
SEMIVOLATILE COMPOUNDS						
2,6-Dinitrotoluene	340 U	355 U	390 U	350 U	380 U	350 U
bis(2-Ethylhexyl)Phthalate	461 B	404 B	390 U	197 B J	203 B J	217 B J
Fluoranthene	340 U	716	390 U	350 U	380 U	350 U
Fluorene	340 U	355 U	390 U	350 U	380 U	350 U
Hexachlorobenzene	340 U	355 U	390 U	350 U	380 U	350 U
Hexachlorobutadiene	340 U	355 U	390 U	350 U	380 U	350 U
Hexachlorocyclopentadiene	340 U	355 U	390 U	350 U	380 U	350 U
Hexachloroethane	340 U	355 U	390 U	350 U	380 U	350 U
Indeno(1,2,3-cd)Pyrene	340 U	227 J	390 U	350 U	380 U	350 U
Isophorone	340 U	355 U	390 U	350 U	380 U	350 U
2-Methylnaphthalene	340 U	355 U	390 U	350 U	380 U	350 U
4-Methylphenol	340 U	355 U	390 U	350 U	380 U	350 U
2-Methylphenol	340 U	355 U	390 U	350 U	380 U	350 U
N-Nitroso-Di-n-Propylamine	340 U	355 U	390 U	350 U	380 U	350 U
N-Nitrosodimethylamine	340 U	355 U	390 U	350 U	380 U	350 U
N-Nitrosodiphenylamine (1)	340 U	355 U	390 U	350 U	380 U	350 U
Naphthalene	340 U	355 U	390 U	350 U	380 U	350 U
2-Nitroaniline	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
4-Nitroaniline	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
3-Nitroaniline	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
Nitrobenzene	340 U	355 U	390 U	350 U	380 U	350 U
4-Nitrophenol	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
2-Nitrophenol	340 U	355 U	390 U	350 U	380 U	350 U
Pentachlorophenol	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
Phenanthrene	340 U	234 J	390 U	350 U	380 U	350 U
Phenol	340 U	355 U	390 U	350 U	380 U	350 U
Pyrene	340 U	523	390 U	350 U	380 U	350 U
1,2,4-Trichlorobenzene	340 U	355 U	390 U	350 U	380 U	350 U
2,4,5-Trichlorophenol	1670 U	1720 U	1880 U	1680 U	1840 U	1700 U
2,4,6-Trichlorophenol	340 U	355 U	390 U	350 U	380 U	350 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-26(9-11)	MW-26(9-11)R	S-60(4-6)	S-33(4-6)
LAB SAMPLE ID:	90122809	90122809	90122909	90122940
SAMPLE DATE:	12/05/90	12/05/90	12/12/90	12/13/90
RECEIVED DATE:	12/06/90	12/06/90	12/13/90	12/14/90
EXTRACTION DATE:	12/10/90	01/03/91	12/17/90	12/17/90
ANALYSIS DATE:	01/03/91	01/03/91	01/03/91	01/03/91
FILE NAME:	122809	122809R	122909	122940
INSTRUMENT ID:	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	4	4	3	7
SEMIVOLATILE COMPOUNDS				
Acenaphthene	340 U	340 U	340 U	355 U
Acenaphthylene	340 U	340 U	340 U	355 U
Anthracene	340 U	340 U	340 U	355 U
Benzidine	625 U	625 U	620 U	645 U
Benzo(a)Anthracene	340 U	340 U	340 U	355 U
Benzo(a)Pyrene	340 U	340 U	340 U	355 U
Benzo(b+k)fluoranthenes	340 U	340 U	340 U	355 U
Benzo(g,h,i)Perylene	340 U	340 U	340 U	355 U
Benzoic Acid	1670 U	1670 U	1650 U	1720 U
Benzyl Alcohol	340 U	340 U	340 U	355 U
4-Bromophenyl-phenylether	340 U	340 U	340 U	355 U
Butylbenzylphthalate	340 U	340 U	340 U	355 U
4-Chloro-3-Methylphenol	340 U	340 U	340 U	355 U
4-Chloroaniline	340 U	340 U	340 U	355 U
bis(2-Chloroethoxy)Methane	340 U	340 U	340 U	355 U
bis(2-Chloroethyl)Ether	340 U	340 U	340 U	355 U
bis(2-Chloroisopropyl)Ether	340 U	340 U	340 U	355 U
2-Chloronaphthalene	340 U	340 U	340 U	355 U
2-Chlorophenol	340 U	340 U	340 U	355 U
4-Chlorophenyl-phenylether	340 U	340 U	340 U	355 U
Chrysene	340 U	340 U	340 U	355 U
Di-n-Butylphthalate	340 U	340 U	340 U	355 U
Di-n-Octyl Phthalate	340 U	340 U	340 U	355 U
Dibenz(a,h)Anthracene	340 U	340 U	340 U	355 U
Dibenzofuran	340 U	340 U	340 U	355 U
1,2-Dichlorobenzene	340 U	340 U	340 U	355 U
1,3-Dichlorobenzene	340 U	340 U	340 U	355 U
1,4-Dichlorobenzene	340 U	340 U	340 U	355 U
3,3'-Dichlorobenzidine	690 U	690 U	680 U	710 U
2,4-Dichlorophenol	340 U	340 U	340 U	355 U
Diethylphthalate	340 U	340 U	340 U	355 U
Dimethyl Phthalate	340 U	340 U	340 U	355 U
2,4-Dimethylphenol	340 U	340 U	340 U	355 U
4,6-Dinitro-2-Methylphenol	1670 U	1670 U	1650 U	1720 U
2,4-Dinitrophenol	1670 U	1670 U	1650 U	1720 U
2,4-Dinitrotoluene	340 U	340 U	340 U	355 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-26(9-11)	MW-26(9-11)R	S-60(4-6)	S-33(4-6)
LAB SAMPLE ID:	90122809	90122809	90122909	90122940
SAMPLE DATE:	12/05/90	12/05/90	12/12/90	12/13/90
RECEIVED DATE:	12/06/90	12/06/90	12/13/90	12/14/90
EXTRACTION DATE:	12/10/90	01/03/91	12/17/90	12/17/90
ANALYSIS DATE:	01/03/91	01/03/91	01/03/91	01/03/91
FILE NAME:	122809	122809R	122909	122940
INSTRUMENT ID:	MSA	MSA	MSA	MSA
MATRIX:	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	4	4	3	7
SEMIVOLATILE COMPOUNDS				
2,6-Dinitrotoluene	340 U	340 U	340 U	355 U
bis(2-Ethylhexyl)Phthalate	306 B J	829 B	340 U	355 U
Fluoranthene	340 U	340 U	340 U	355 U
Fluorene	340 U	340 U	340 U	355 U
Hexachlorobenzene	340 U	340 U	340 U	355 U
Hexachlorobutadiene	340 U	340 U	340 U	355 U
Hexachlorocyclopentadiene	340 U	340 U	340 U	355 U
Hexachloroethane	340 U	340 U	340 U	355 U
Indeno(1,2,3-cd)Pyrene	340 U	340 U	340 U	355 U
Isophorone	340 U	340 U	340 U	355 U
2-Methylnaphthalene	340 U	340 U	340 U	355 U
4-Methylphenol	340 U	340 U	340 U	355 U
2-Methylphenol	340 U	340 U	340 U	355 U
N-Nitroso-Di-n-Propylamine	340 U	340 U	340 U	355 U
N-Nitrosodimethylamine	340 U	340 U	340 U	355 U
N-Nitrosodiphenylamine (1)	340 U	340 U	340 U	355 U
Naphthalene	340 U	340 U	340 U	355 U
2-Nitroaniline	1670 U	1670 U	1650 U	1720 U
4-Nitroaniline	1670 U	1670 U	1650 U	1720 U
3-Nitroaniline	1670 U	1670 U	1650 U	1720 U
Nitrobenzene	340 U	340 U	340 U	355 U
4-Nitrophenol	1670 U	1670 U	1650 U	1720 U
2-Nitrophenol	340 U	340 U	340 U	355 U
Pentachlorophenol	1670 U	1670 U	1650 U	1720 U
Phenanthrene	340 U	340 U	340 U	355 U
Phenol	340 U	340 U	340 U	355 U
Pyrene	340 U	340 U	340 U	355 U
1,2,4-Trichlorobenzene	340 U	340 U	340 U	355 U
2,4,5-Trichlorophenol	1670 U	1670 U	1650 U	1720 U
2,4,6-Trichlorophenol	340 U	340 U	340 U	355 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-90	S-80 (2-4)	S-82 (0-2)	S-30 (0-2)	S-22 (0-2)	S-64 (2-3)
LAB SAMPLE ID:	90102164	90102243	90102374	90102376	90102382	90102403
SAMPLE DATE:	10/01/90	10/03/90	10/16/90	10/16/90	10/17/90	10/18/90
RECEIVED DATE:	10/03/90	10/05/90	10/18/90	10/18/90	10/18/90	10/19/90
EXTRACTION DATE:	10/08/90	10/08/90	10/19/90	10/19/90	10/19/90	10/19/90
ANALYSIS DATE:	10/22/90	10/22/90	10/22/90	10/22/90	10/22/90	10/22/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	7	4	10	10	18	16
PESTICIDE AND PCB COMPOUNDS						
alpha-BHC	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
beta-BHC	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
delta-BHC	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
gamma-BHC (Lindane)	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
Heptachlor	485	8.0 U	9.0 U	9.0 U	10 U	10 U
Aldrin	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
Heptachlor Epoxide	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
Endosulfan I	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
Dieldrin	1521	17 U	18 U	18 U	20 U	19 U
4,4'-DDE	17 U	17 U	18 U	18 U	20 U	19 U
Endrin	1422	17 U	18 U	18 U	20 U	19 U
Endosulfan II	17 U	17 U	18 U	18 U	20 U	19 U
4,4'-DDD	17 U	17 U	18 U	18 U	20 U	19 U
Endosulfate	17 U	17 U	18 U	18 U	20 U	19 U
4,4'-DDT	17 U	17 U	18 U	18 U	20 U	19 U
Endrin Ketone	17 U	17 U	18 U	18 U	20 U	19 U
Methoxychlor	85 U	85 U	90 U	90 U	100 U	95 U
alpha-chlordane	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
gamma-chlordane	9.0 U	8.0 U	9.0 U	9.0 U	10 U	10 U
Toxaphene	170 U	170 U	180 U	180 U	200 U	190 U
Arochlor-1016	85 U	85 U	90 U	90 U	100 U	95 U
Arochlor-1221	85 U	85 U	90 U	90 U	100 U	95 U
Arochlor-1232	85 U	85 U	90 U	90 U	100 U	95 U
Arochlor-1242	85 U	85 U	90 U	90 U	100 U	95 U
Arochlor-1248	85 U	85 U	90 U	90 U	100 U	95 U
Arochlor-1254	85 U	85 U	934	90 U	262	838
Arochlor-1260	85 U	85 U	90 U	90 U	100 U	95 U

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-17 (0-2)	S-49 (2-4)	S-47 (2-4)	S-62 (0-2)	S-61 (5-7)	S-43 (0-2)
LAB SAMPLE ID:	90102423	90102425	90102433	90102502	90102505	90112583
SAMPLE DATE:	10/19/90	10/19/90	10/19/90	10/24/90	10/24/90	11/05/90
RECEIVED DATE:	10/20/90	10/20/90	10/20/90	10/26/90	10/26/90	11/07/90
EXTRACTION DATE:	10/24/90	10/24/90	10/24/90	10/30/90	10/30/90	11/12/90
ANALYSIS DATE:	11/07/90	11/07/90	11/07/90	11/07/90	11/07/90	11/14/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	31	6	7	10	12	11
ICIDE AND PCB COMPOUNDS						
alpha-BHC	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
a-BHC	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
elta-BHC	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
gamma-BHC (Lindane)	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
tachlor	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
Aldrin	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
ptachlor Epoxide	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
dosulfan I	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
Dieldrin	23 U	17 U	170 U	18 U	18 U	180 U
4,4'-DDE	23 U	17 U	170 U	18 U	18 U	180 U
drin	23 U	17 U	170 U	18 U	18 U	180 U
Endosulfan II	23 U	17 U	170 U	18 U	18 U	180 U
4'-DDD	23 U	17 U	170 U	18 U	18 U	180 U
dosulfate	23 U	17 U	170 U	18 U	18 U	180 U
4,4'-DDT	23 U	17 U	170 U	18 U	18 U	180 U
drin Ketone	23 U	17 U	170 U	18 U	18 U	180 U
thoxychlor	115 U	85 U	860 U	90 U	90 U	900 U
alpha-chlordane	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
mma-chlordane	12 U	9.0 U	85.0 U	9.0 U	9.0 U	90.0 U
xaphene	230 U	170 U	1720 U	180 U	180 U	1800 U
Arochlor-1016	115 U	85 U	860 U	90 U	90 U	900 U
ochlor-1221	115 U	85 U	860 U	90 U	90 U	900 U
rochlor-1232	115 U	85 U	860 U	90 U	90 U	900 U
Arochlor-1242	115 U	85 U	860 U	90 U	90 U	900 U
ochlor-1248	115 U	85 U	860 U	90 U	90 U	900 U
Arochlor-1254	115 U	85 U	860 U	90 U	90 U	900 U
Arochlor-1260	604	710	934	90 U	90 U	900 U

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-41A(3.5-5.5)	MW-25 (6-8)	S-53 (5-7)	MW-34 (0-2)	S-38 (2-4)	S-37 (2-4)
LAB SAMPLE ID:	90102600	90112698	90112732	90112772	90112775	90112779
SAMPLE DATE:	11/07/90	11/17/90	11/18/90	11/29/90	11/29/90	11/29/90
RECEIVED DATE:	11/09/90	11/19/90	11/21/90	11/30/90	11/30/90	11/30/90
EXTRACTION DATE:	11/12/90	11/20/90	11/21/90	12/03/90	12/03/90	12/03/90
ANALYSIS DATE:	11/14/90	11/20/90	12/17/90	12/17/90	12/17/90	12/17/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	14	8	4	7	15	5
PESTICIDE AND PCB COMPOUNDS						
alpha-BHC	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
beta-BHC	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
delta-BHC	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
gamma-BHC (Lindane)	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
Heptachlor	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
Aldrin	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
Heptachlor Epoxide	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
Endosulfan I	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
Dieldrin	190 U	17 U	17 U	17 U	19 U	17 U
4,4'-DDE	190 U	17 U	17 U	17 U	19 U	17 U
Endrin	190 U	17 U	17 U	17 U	19 U	17 U
Endosulfan II	190 U	17 U	17 U	17 U	19 U	17 U
4,4'-DDD	190 U	17 U	17 U	17 U	19 U	17 U
Endosulfate	190 U	17 U	17 U	17 U	19 U	17 U
4,4'-DDT	190 U	17 U	17 U	17 U	19 U	17 U
Endrin Ketone	190 U	17 U	17 U	17 U	19 U	17 U
Methoxychlor	930 U	85 U	85 U	85 U	95 U	85 U
alpha-chlordane	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
gamma-chlordane	95.0 U	9.0 U	8.0 U	9.0 U	9.0 U	8.0 U
Toxaphene	1860 U	175 U	165 U	170 U	190 U	170 U
Arochlor-1016	930 U	85 U	85 U	85 U	95 U	85 U
Arochlor-1221	930 U	85 U	85 U	85 U	95 U	85 U
Arochlor-1232	930 U	85 U	85 U	85 U	95 U	85 U
Arochlor-1242	930 U	85 U	85 U	85 U	95 U	85 U
Arochlor-1248	930 U	85 U	85 U	85 U	95 U	85 U
Arochlor-1254	930 U	85 U	85 U	85 U	95 U	85 U
Arochlor-1260	930 U	330	161	454	108	85 U

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J.- Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-35 (8-10)	S-37 (4-6)	MW-26 (9-11)	S-60 (4-6)	S-33 (4-6)
LAB SAMPLE ID:	90122785	90122791	90122809	90122909	90122940
SAMPLE DATE:	11/30/90	12/01/90	12/05/90	12/12/90	12/13/90
RECEIVED DATE:	12/01/90	12/03/90	12/06/90	12/13/90	12/14/90
EXTRACTION DATE:	12/04/90	12/04/90	12/10/90	12/17/90	12/17/90
ANALYSIS DATE:	12/17/90	12/17/90	12/17/90	01/21/91	01/21/91
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	13	6	4	3	7
PESTICIDE AND PCB COMPOUNDS					
alpha-BHC	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
beta-BHC	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
delta-BHC	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
gamma-BHC (Lindane)	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
Heptachlor	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
Aldrin	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
Heptachlor Epoxide	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
Endosulfan I	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
Dieldrin	18 U	17 U	17 U	16 U	17 U
4,4'-DDE	18 U	17 U	17 U	16 U	17 U
Endrin	18 U	17 U	17 U	16 U	17 U
Endosulfan II	18 U	17 U	17 U	16 U	17 U
4,4'-DDD	18 U	17 U	17 U	16 U	17 U
Endosulfate	18 U	17 U	17 U	16 U	17 U
4,4'-DDT	18 U	17 U	17 U	16 U	17 U
Endrin Ketone	18 U	17 U	17 U	16 U	17 U
Methoxychlor	90 U	85 U	85 U	80 U	85 U
alpha-chlordane	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
gamma-chlordane	9.0 U	9.0 U	8.0 U	8.0 U	9.0 U
Toxaphene	185 U	170 U	170 U	165 U	170 U
Arochlor-1016	90 U	85 U	85 U	80 U	85 U
Arochlor-1221	90 U	85 U	85 U	80 U	85 U
Arochlor-1232	90 U	85 U	85 U	80 U	85 U
Arochlor-1242	90 U	85 U	85 U	80 U	85 U
Arochlor-1248	90 U	85 U	85 U	80 U	85 U
Arochlor-1254	90 U	85 U	85 U	80 U	85 U
Arochlor-1260	90 U	85 U	85 U	80 U	85 U

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-74 (0-2)	S-77 (0-2)	S-75 (0-2)	S-3 (0-2)	S-4 (0-2)	S-9 (0-2)
LAB SAMPLE ID:	90102277	90102280	90102282	90102299	90102300	90102301
SAMPLE DATE:	10/08/90	10/08/90	10/08/90	10/10/90	10/10/90	10/10/90
RECEIVED DATE:	10/10/90	10/10/90	10/10/90	10/12/90	10/12/90	10/12/90
EXTRACTION DATE:	10/15/90	10/15/90	10/15/90	10/15/90	10/15/90	10/15/90
ANALYSIS DATE :	10/18/90	10/18/90	10/18/90	10/18/90	10/18/90	10/18/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	12	3	11	11	8	7

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	910 U	80 U	900 U	900 U	870 U	860 U
Arochlor-1221	910 U	80 U	900 U	900 U	870 U	860 U
Arochlor-1232	910 U	80 U	900 U	900 U	870 U	860 U
Arochlor-1242	910 U	80 U	900 U	900 U	870 U	860 U
Arochlor-1248	910 U	80 U	900 U	900 U	870 U	860 U
Arochlor-1254	4550	80	3120	7490	870 U	860 U
Arochlor-1260	910 U	80 U	900 U	900 U	870 U	860 U

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-3 (3-5)	S-9 (3-4.5)	S-66 (3-5)	S-10 (0-2)	S-59 (0-2)	S-31 (0-2)
LAB SAMPLE ID:	90102305	90102306	90102307	90102378	90102379	90102384
SAMPLE DATE:	10/10/90	10/10/90	10/10/90	10/16/90	10/17/90	10/17/90
RECEIVED DATE:	10/12/90	10/12/90	10/12/90	10/18/90	10/18/90	10/18/90
EXTRACTION DATE:	10/15/90	10/15/90	10/15/90	10/19/90	10/19/90	10/19/90
ANALYSIS DATE :	10/18/90	10/18/90	10/18/90	10/22/90	10/22/90	10/18/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	53	16	9	4	6	7

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	1700 U	950 U	90 U	80 U	85 U	85 U
Arochlor-1221	1700 U	950 U	90 U	80 U	85 U	85 U
Arochlor-1232	1700 U	950 U	90 U	80 U	85 U	85 U
Arochlor-1242	1700 U	950 U	90 U	80 U	85 U	85 U
Arochlor-1248	1700 U	950 U	90 U	80 U	85 U	85 U
Arochlor-1254	1700 U	1070	90 U	80 U	85 U	410
Arochlor-1260	1700 U	950 U	90 U	80 U	85 U	85 U

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-84 (0-2)	S-83 (0-2)	S-94 (2-3)	MW-22 (0-2)	MW-13 (0-2)	S-2 (0-2)
LAB SAMPLE ID:	90102385	90102386	90102397	90102436	90102438	90102500
SAMPLE DATE:	10/17/90	10/17/90	10/18/90	10/20/90	10/20/90	10/24/90
RECEIVED DATE:	10/18/90	10/18/90	10/19/90	10/22/90	10/22/90	10/26/90
EXTRACTION DATE:	10/19/90	10/19/90	10/19/90	10/24/90	10/24/90	10/30/90
ANALYSIS DATE :	10/22/90	10/22/90	10/22/90	11/05/90	11/07/90	11/05/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	8	10	12	21	14	12

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	90 U	100 U	90 U	1010 U	930 U	910 U
Arochlor-1221	90 U	100 U	90 U	1010 U	930 U	910 U
Arochlor-1232	90 U	100 U	90 U	1010 U	930 U	910 U
Arochlor-1242	90 U	100 U	90 U	1010 U	930 U	910 U
Arochlor-1248	90 U	100 U	90 U	1010 U	930 U	910 U
Arochlor-1254	220	100 U	90 U	1010 U	930 U	910 U
Arochlor-1260	90 U	100 U	90 U	790	4350	1794

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-63 (0-2)	S-7 (0-2)	S-8 (0-2)	S-76 (0-0.7)	S-67 (0-2)	S-68 (0-2)
LAB SAMPLE ID:	90102506	90102508	90102509	90102510	90102511	90102512
SAMPLE DATE:	10/25/90	10/25/90	10/25/90	10/25/90	10/27/90	10/27/90
RECEIVED DATE:	10/26/90	10/26/90	10/26/90	10/26/90	10/29/90	10/29/90
EXTRACTION DATE:	10/30/90	10/30/90	10/30/90	10/30/90	10/31/90	10/31/90
ANALYSIS DATE :	11/05/90	11/05/90	11/05/90	11/05/90	11/05/90	11/05/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	16	12	9	11	9	11

POLYCHLORINATED BIPHENYL COMPOUNDS

Ar hlor-1016	95 U	90 U	90 U	900 U	90 U	90 U
Ar hlor-1221	95 U	90 U	90 U	900 U	90 U	90 U
Ar hlor-1232	95 U	90 U	90 U	900 U	90 U	90 U
Arochlor-1242	95 U	90 U	90 U	900 U	90 U	90 U
Arochlor-1248	95 U	90 U	90 U	900 U	90 U	90 U
Arochlor-1254	95 U	90 U	90 U	900 U	90 U	90
Arochlor-1260	3570	955	1290	2930	290	270

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-1 (0-2)	S-1 (2-3)	MW-17 (0-2)	S-5 (0-2)	W.M.	MW-31 (0-2)
LAB SAMPLE ID:	90102515	90102516	90102517	90102519	90102520	90112595
SAMPLE DATE:	10/26/90	10/26/90	10/26/90	10/26/90	10/26/90	11/08/90
RECEIVED DATE:	10/29/90	10/29/90	10/29/90	10/29/90	10/29/90	11/09/90
EXTRACTION DATE:	10/31/90	10/31/90	10/31/90	10/31/90	10/30/90	11/12/90
ANALYSIS DATE :	11/07/90	11/07/90	11/07/90	11/07/90	10/30/90	11/14/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	WATER	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG
% MOISTURE:	20	23	12	9	N/A	22

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	1000 U	100 U	90 U	880 U	0.2 U	1030 U
Arochlor-1221	1000 U	100 U	90 U	880 U	0.2 U	1030 U
Arochlor-1232	1000 U	100 U	90 U	880 U	0.1 U	1030 U
Arochlor-1242	1000 U	100 U	90 U	880 U	0.1 U	1030 U
Arochlor-1248	1000 U	100 U	90 U	880 U	0.5 U	1030 U
Arochlor-1254	1000 U	100 U	90 U	880 U	0.5 U	1030 U
Arochlor-1260	3010	590	670	8150	0.2 U	7540

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-16 (0-2)	MW-16 (10-12)	S-50 (0-2)	S-51 (0-2)	S-52 (0-2)	S-6 (0-2)
LAB SAMPLE ID:	90112597	90112599	90112624	90112625	90112626	90112634
SAMPLE DATE:	11/07/90	11/07/90	11/10/90	11/10/90	11/10/90	11/11/90
RECEIVED DATE:	11/09/90	11/09/90	11/12/90	11/12/90	11/12/90	11/13/90
EXTRACTION DATE:	11/12/90	11/12/90	11/12/90	11/12/90	11/12/90	11/16/90
ANALYSIS DATE :	11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	11/16/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	18	14	13	10	13	14

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	980 U	930 U	90 U	90 U	90 U	930 U
Arochlor-1221	980 U	930 U	90 U	90 U	90 U	930 U
Arochlor-1232	980 U	930 U	90 U	90 U	90 U	930 U
Arochlor-1242	980 U	930 U	90 U	90 U	90 U	930 U
Arochlor-1248	980 U	930 U	90 U	90 U	90 U	930 U
Arochlor-1254	980 U	930 U	90 U	90 U	90 U	930 U
Arochlor-1260	1210	350	470	191	1040	1810

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-16 (0-2)	S-34 (0-2)	S-26 (0-2)	S-53 (0-2)	S-53 (3.5-5.5)	S-78 (0-2)
LAB SAMPLE ID:	90112636	90112694	90112695	90112730	90112731	90112750
SAMPLE DATE:	11/11/90	11/17/90	11/17/90	11/18/90	11/18/90	11/26/90
RECEIVED DATE:	11/13/90	11/19/90	11/19/90	11/21/90	11/21/90	11/28/90
EXTRACTION DATE:	11/16/90	11/20/90	11/20/90	11/21/90	11/21/90	12/03/90
ANALYSIS DATE :	11/16/90	11/20/90	11/20/90	12/17/90	12/17/90	12/17/90
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	11	15	11	8	3	15

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	90 U	940 U	90 U	4350 U	80 U	95 U
Arochlor-1221	90 U	940 U	90 U	4350 U	80 U	95 U
Arochlor-1232	90 U	940 U	90 U	4350 U	80 U	95 U
Arochlor-1242	90 U	940 U	90 U	4350 U	80 U	95 U
Arochlor-1248	90 U	940 U	90 U	4350 U	80 U	95 U
Arochlor-1254	90 U	940 U	90 U	4350 U	80 U	95 U
Arochlor-1260	150	230	90 U	71160	410	1910

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-30 (0-2)	S-36 (0-2)	S-32 (0-2)	MW-21 (0-2)	MW-19 (0-2)	MW-20 (0-2)
LAB SAMPLE ID:	90122781	90122786	90122802	90122847	90122848	90122908
SAMPLE DATE:	11/30/90	12/01/90	12/04/90	12/06/90	12/07/90	12/11/90
RECEIVED DATE:	12/01/90	12/03/90	12/06/90	12/08/90	12/08/90	12/13/90
EXTRACTION DATE:	12/04/90	12/04/90	12/10/90	12/10/90	12/10/90	12/17/90
ANALYSIS DATE :	12/17/90	12/17/90	12/17/90	12/17/90	12/17/90	01/11/91
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
% MOISTURE:	11	12	18	9	24	20

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	90 U	90 U	100 U	90 U	110 U	100 U
Arochlor-1221	90 U	90 U	100 U	90 U	110 U	100 U
Arochlor-1232	90 U	90 U	100 U	90 U	110 U	100 U
Arochlor-1242	90 U	90 U	100 U	90 U	110 U	100 U
Arochlor-1248	90 U	90 U	100 U	90 U	110 U	100 U
Arochlor-1254	90 U	90 U	370	90 U	110 U	100 U
Arochlor-1260	290	90 U	100 U	320	110 U	60

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID: S-78 (8-9)

LAB SAMPLE ID:	90122910
SAMPLE DATE:	12/12/90
RECEIVED DATE:	12/13/90
EXTRACTION DATE:	12/17/90
ANALYSIS DATE :	01/11/91
MATRIX:	SOIL
UNITS:	UG/KG
% MOISTURE:	6

POLYCHLORINATED BIPHENYL COMPOUNDS

·och'or-1016	85 U
·ochlor-1221	85 U
·ochlor-1232	85 U
rochlor-1242	85 U
oc\ or-1248	85 U
oc\ or-1254	85 U
oc\ or-1260	85 U

- \ ected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

RESULTS OF TOTAL PETROLEUM HYDROCARBONS IN SOIL SAMPLES
ON DRY WEIGHT BASIS

NVIROSYSTEMS I.D.	CLIENT I.D.	TPH RESULTS MG/KG	DATE SAMPLED	DATE EXTRACTED
90102159	S-85	262	10/02/90	10/03/90
90102160	S-86	690	10/02/90	10/03/90
90102161	S-87	30	10/01/90	10/03/90
90102162	S-88	312	10/01/90	10/03/90
90102163	S-89	278	10/01/90	10/03/90
90102164	S-90	175	10/01/90	10/03/90
90102165	S-91	3300	10/02/90	10/03/90
90102166	S-92	201	10/02/90	10/03/90
90102167	S-27	62	10/02/90	10/03/90
90102240	S-29 (0-2)	9470	10/03/90	10/05/90
90102241	S-79 (0-2)	3340	10/03/90	10/05/90
90102242	S-80 (0-2)	750	10/03/90	10/05/90
90102244	MW-32 (0-2)	436	10/04/90	10/05/90
90102245	S-71 (0-2)	3395	10/04/90	10/05/90
90102246	S-71 (6-8)	220	10/04/90	10/05/90
90102247	S-70 (0-2)	3745	10/04/90	10/05/90
90102248	S-70 (6-8)	280	10/04/90	10/05/90
90102249	S-72 (0-2)	1715	10/04/90	10/05/90
90102250	S-72 (6-8)	360	10/04/90	10/05/90
90102251	S-73 (0-2)	2390	10/04/90	10/05/90
90102256	S-21 (0-2)	410	10/05/90	10/09/90
90102257	S-21 (6-8)	142	10/05/90	10/09/90
90102258	S-23 (0-2)	1395	10/05/90	10/09/90
90102259	S-23 (8-10)	<11	10/05/90	10/09/90
90102275	S-24 (0-2)	2120	10/08/90	01/10/91
90102276	S-24 (9-11)	238	10/08/90	01/10/91
90102277	S-74 (0-2)	2280	10/08/90	01/10/91
90102278	S-74 (6-8)	296	10/08/90	01/10/91
90102279	S-74 (12-14)	<10	10/08/90	01/10/91
90102280	S-77 (0-2)	<10	10/08/90	01/10/91
90102281	S-77 (13-15)	<10	10/08/90	01/10/91
90102282	S-75 (0-2)	3090	10/08/90	01/10/91
90102283	S-81 (0-2)	3480	10/09/90	01/10/91
90102284	S-28 (0-2)	102	10/09/90	01/10/91
90102299	S-3 (0-2)	4210	10/10/90	10/15/90
90102300	S-4 (0-2)	12120	10/10/90	10/15/90
90102301	S-9 (0-2)	31630	10/10/90	10/15/90
90102303	S-66 (0-2)	141	10/10/90	10/15/90
90102304	S-69 (0-2)	118	10/10/90	10/15/90
90102322	S-54 (0-2)	4350	10/12/90	10/17/90

ENVIROSYSTEMS I.D.	CLIENT I.D.	TPH RESULTS MG/KG	DATE SAMPLED	DATE EXTRACTED
90102323	S-54 (7-9)	120	10/12/90	10/17/90
90102324	S-55 (0-2)	162860	10/12/90	10/17/90
90102325	S-55 (7-9)	554	10/12/90	10/17/90
90102326	S-56 (0-2)	3890	10/12/90	10/17/90
90102327	S-56 (7-9)	43	10/12/90	10/17/90
90102374	S-82 (0-2)	371	10/16/90	10/18/90
90102375	S-82 (6-8)	200	10/16/90	10/18/90
90102376	S-30 (0-2)	88	10/16/90	10/18/90
90102377	S-30 (4-6)	<11	10/16/90	10/18/90
90102378	S-10 (0-2)	510	10/16/90	10/18/90
90102379	S-59 (0-2)	<11	10/17/90	10/18/90
90102380	S-58 (0-2)	360	10/17/90	10/18/90
90102381	S-40 (0-2)	562	10/17/90	10/18/90
90102382	S-22 (0-2)	1145	10/17/90	10/18/90
90102384	S-31 (0-2)	7730	10/17/90	10/19/90
90102385	S-84 (0-2)	15370	10/17/90	10/19/90
90102386	S-83 (0-2)	226	10/17/90	10/18/90
90102396	S-94 (0-2)	47	10/18/90	01/16/91
90102398	S-93 (0-2)	280	10/18/90	01/16/91
90102399	S-93 (18-20)	117	10/18/90	01/16/91
90102400	S-25 (0-2)	56	10/18/90	01/16/91
90102401	S-95 (0-2)	494	10/18/90	01/16/91
90102402	S-64 (0-2)	4850	10/18/90	01/16/91
90102423	S-17 (0-2)	210	10/19/90	10/23/90
90102424	S-49 (0-2)	4460	10/19/90	10/23/90
90102426	S-49 (4-6)	9465	10/19/90	10/23/90
90102427	S-49 (8-10)	5644	10/19/90	10/23/90
90102428	S-48 (0-2)	2996	10/19/90	10/23/90
90102430	S-48 (2-4)	3170	10/19/90	10/23/90
90102431	S-48 (11-13)	6700	10/19/90	10/23/90
90102432	S-47 (0-2)	28510	10/19/90	10/23/90
90102434	S-47 (7-9)	<11	10/19/90	10/23/90
90102435	S-47 (11-13)	<12	10/19/90	10/23/90
90102436	MW-22 (0-2)	18220	10/20/90	10/24/90
90102438	MW-13 (0-2)	494	10/20/90	10/24/90
90102500	S-2 (0-2)	44110	10/24/90	10/30/90
90102501	S-65 (0-2)	2424	10/24/90	10/30/90
90102502	S-62 (0-2)	4820	10/24/90	10/30/90
90102503	S-61 (0-1.1)	13690	10/24/90	10/30/90
90102506	S-63 (0-2)	7520	10/25/90	10/30/90
90102508	S-7 (0-2)	2962	10/25/90	10/30/90

ENVIROSYSTEMS I.D.	CLIENT I.D.	TPH RESULTS MG/KG	DATE SAMPLED	DATE EXTRACTED
90102509	S-8 (0-2)	1015	10/25/90	10/30/90
90102510	S-76 (0-0.7)	25940	10/25/90	10/30/90
90102511	S-67 (0-2)	124	10/27/90	10/31/90
90102512	S-68 (0-2)	442	10/27/90	10/31/90
90102513	S-45 (0-2)	1278	10/27/90	10/31/90
90102514	S-45 (2-4)	284	10/27/90	10/31/90
90102515	S-1 (0-2)	32750	10/27/90	10/31/90
90102516	S-1 (2-3)	5570	10/26/90	10/31/90
90102517	MW-17 (0-2)	2138	10/26/90	10/31/90
90102519	S-5 (0-2)	9710	10/26/90	10/31/90
90112581	S-44 (0-2)	650	11/05/90	11/08/90
90112582	S-44 (4-6)	10140	11/05/90	11/08/90
90112583	S-43 (0-2)	837	11/05/90	11/08/90
90112584	S-41 (0-2)	144	11/05/90	11/08/90
90112585	S-42 (0-2)	320	11/05/90	11/08/90
90112586	S-41 (2-4)	152	11/05/90	11/08/90
90112595	MW-31 (0-2)	16270	11/08/90	11/12/90
90112596	MW-31 (10-12)	233	11/08/90	11/12/90
90112597	MW-16 (0-2)	17840	11/07/90	11/12/90
90112602	S-46 (0-2)	658	11/08/90	11/12/90
90112604	S-46 (7-9)	90	11/08/90	11/12/90
90112622	MW-28 (0-2)	<11	11/09/90	11/12/90
90112623	MW-28 (6-8)	<11	11/09/90	11/12/90
90112624	S-50 (0-2)	<11	11/10/90	11/15/90
90112625	S-51 (0-2)	178	11/10/90	11/15/90
90112626	S-52 (0-2)	2482	11/10/90	11/15/90
90112627	S-52 (10-12)	354	11/10/90	11/15/90
90112628	S-51 (12-14)	320	11/10/90	11/15/90
90112634	S-6 (0-2)	1565	11/11/90	11/15/90
90112635	S-6 (8-9)	<12	11/11/90	11/15/90
90112636	S-16 (0-2)	960	11/11/90	11/15/90
90112637	S-16 (10-12)	<11	11/11/90	11/15/90
90112638	S-20 (0-2)	2574	11/11/90	11/15/90
90112692	MW-23 (9-11)	48290	11/16/90	11/20/90
90112693	MW-29 (0-2)	183	11/17/90	11/20/90
90112694	S-34 (0-2)	<12	11/17/90	11/20/90
90112695	S-26 (0-2)	1335	11/17/90	11/20/90
90112696	S-26 (4-6)	22	11/17/90	11/20/90
90112697	MW-25 (0-2)	331	11/17/90	11/20/90
90112699	MW-25 (6-8)	12	11/17/90	11/20/90
90112730	S-53 (0-2)	216	11/18/90	01/16/91
90112733	S-53 (8-10)	12	11/18/90	01/16/91

ENVIROSYSTEMS I.D.	CLIENT I.D.	TPH RESULTS MG/KG	DATE SAMPLED	DATE EXTRACTED
90112748	S-57 (0-2)	2362	11/26/90	12/03/90
90112749	S-60 (0-2)	4456	11/26/90	12/03/90
90112750	S-78 (0-2)	12600	11/26/90	12/03/90
90112751	MW-24 (0-2)	178	11/27/90	12/03/90
90112772	MW-34 (0-2)	91	11/29/90	12/04/90
90112773	MW-34 (10-12)	11	11/29/90	12/04/90
90112774	S-38 (0-2)	112	11/29/90	12/04/90
90112776	S-38 (10-12)	41	11/29/90	12/04/90
90112777	S-38 (12-14)	377	11/29/90	12/04/90
90112778	S-39 (0-2)	218	11/29/90	12/04/90
90112780	S-39 (8-10)	198	11/29/90	12/04/90
90112781-A	MW-24 (15-17)	179	11/28/90	12/04/90
90122781	MW-30 (0-2)	970	11/30/90	12/05/90
90122782	MW-30 (6-8)	96	11/30/90	12/05/90
90122783	MW-30 (11-13)	91	11/30/90	12/05/90
90122784	S-35 (0-2)	28	11/30/90	12/05/90
90122786	S-36 (0-2)	61	12/01/90	12/10/90
90122787	S-36 (6-8)	35	12/01/90	12/10/90
90122789	S-37 (0-2)	682	12/01/90	12/10/90
90122792	S-37 (8-10)	<11	12/01/90	12/10/90
90122793	S-37 (14-16)	<12	12/01/90	12/10/90
90122797	MW-27 (0-2)	1244	12/01/90	12/10/90
90122798	MW-27 (7-9)	<11	12/01/90	12/10/90
90122799	MW-27 (14-16)	<12	12/01/90	12/10/90
90122802	S-32 (0-2)	<12	12/04/90	12/10/90
90122803	S-19 (0-2)	444	12/04/90	12/10/90
90122804	S-25 (0-2)	<11	12/05/90	12/10/90
90122805	S-25 (12-14)	<10	12/05/90	12/10/90
90122806	S-25 (19-21)	<11	12/05/90	12/10/90
90122807	MW-26 (0-2)	<12	12/05/90	12/10/90
90122808	S-19 (9-11)	<10	12/04/90	12/10/90
90122810	MW-26 (12-14)	<11	12/05/90	12/10/90
90122847	MW-21 (0-2)	93	12/06/90	12/10/90
90122848	MW-19 (0-2)	8612	12/07/90	12/10/90
90122908	MW-20 (0-2)	1158	12/11/90	12/17/90
90122939	S-33 (0-2)	<11	12/13/90	12/17/90

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-90	S-80 (2'-4')	S-82 (0'-2')	S-30 (0'-2')	S-23 (0'-2')	S-22 (0'-2') MS/MSD
LAB SAMPLE ID:	90102164	90102243	90102374	90102376	90102382	90102383
RECEIVED DATE:	10/03/90	10/05/90	10/18/90	10/18/90	10/18/90	10/18/90
ANALYSIS DATE:	11/19/90	11/19/90	11/19/90	11/19/90	11/19/90	11/19/90
MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
PCT. SOLID:	91.4	96.4	90.4	90.0	85.6	86.3
UNIT:	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

METALS

ALUMINUM		4530			5300			3410			3950			2220			2300					
ANTIMONY	<	1.7	N	<	1.6	N	<	1.7	N		2.4	BN		3.5	BN		2.0	BN				
ARSENIC		3.3			2.7			6.9		<	1.2			26			20					
BARIUM		296	*		41	B*		47	*		23	B*		81	*		66	*				
BERYLLIUM	<	0.35		<	0.33		<	0.35		<	0.36		<	0.37			0.46					
CADMIUM		1.3		<	0.68		<	0.73		<	0.73		<	0.77		<	0.76					
CALCIUM		1890			1200			954	B		6850			468	B		587	B				
CHROMIUM		12	N*		15	N*		16	N*		13	N*		17	N*		12	N*				
COBALT		4.8	B		5.8	B		4.0	B		3.1	B		2.3	B		4.4	B				
COPPER		57			40			73			7.8			349			280					
IRON		10600			11300			17800			5610			27000			23100					
LEAD		372	S*		45	S*		73	*		8.8	*		162	*		125	*				
MAGNESIUM		1670			3040			1500			1510			610	B		444	B				
MANGANESE		389	N*		251	N*		198	N*		165	N*		142	N*		95	N*				
MERCURY		0.98	N	<	0.1	N		0.23	N	<	0.11	N		0.38	N		0.38	N				
NICKEL		11			9.8			12			5.6	B		17			18					
POTASSIUM		604	B		710	B		476	B		567	B		350	B		336	B				
SELENIUM	<	0.57	N	<	0.54	N	<	0.58	N	<	0.58	N	<	0.61	N	<	.06	N				
SILVER		0.59		<	0.48		<	0.51		<	0.51		<	0.54		<	.053					
SODIUM		306	B		336	B		270	B		231	B		301	B		317	B				
THALLIUM	<	0.61		<	0.58		<	0.62		<	0.62		<	0.65		<	0.65					
VANADIUM		14			20			15			11	B		75			67					
ZINC		270			34			37			22			61			49					

B- Value >IDL but <CRDL S- Value determined by methode of standard addition
N- Matrix spike outside recovery limits *- Duplicate RPD out of control
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID	S-64 (2'-3')	S-17 (0'-2')	S-49 (2'-4')	S-47 (2'-4')	S-62 (0-2)	S-61 (S-7) MS/MSD
LAB SAMPLE ID:	90102403	90102423	90102425	90102433	90102502	90102505
RECEIVED DATE:	10/19/90	10/20/90	10/20/90	10/20/90	10/26/90	10/26/90
ANALYSIS DATE:	11/19/90	11/19/90	11/19/90	11/19/90	11/19/90	11/19/90
MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
PCT. SOLID:	84.0	70.0	93.4	92.8	89.9	87.3
UNIT:	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

METALS

ALUMINUM		3000			4430			4620			4470			4090			4970					
ANTIMONY		4.8	BN	<	2.2	N	<	1.6	N	<	1.6	N	<	1.7	N	<	1.7	N				
ARSENIC		8.1			20			2.7			11			3.1			2.6					
BARIUM		97	*		85	*		31	B*		70	*		43	B*		41	*				
BERYLLIUM	<	0.38			0.57	B	<	0.34			0.43	B	<	0.36			0.46	B				
CADMIUM		2.1		<	0.94		<	0.71		<	0.71		<	0.74		<	0.76					
CALCIUM		1610			1030	B		2170			18100			751	B		772	B				
CHROMIUM		19	N*		18			9.6			9.4	N*		14	N*		10	N*				
COBALT		3.1	B	<	2.0			5.4	B		4.7	B		2.5	B		6.4	B				
COPPER		279			244			27			41			76			96					
IRON		38700			28600			9570			11200			10100			13000					
LEAD		212	*		120	*		52	S*		129	S*		1080	S*		44	S*				
MAGNESIUM		1420			1330	B		2170			4280			1630			2150					
MANGANESE		445	N*		175	N*		274	N*		241	N*		314	N*		82	N*				
MERCURY		0.29	N		0.9	N		0.22	N		0.49	N		0.31	N		0.17	N				
NICKEL		23			17			12			10			10			14					
POTASSIUM		412	B		391			762			802	B		466	B		832	B				
SELENIUM	<	0.62	N	<	0.74	N	<	0.56	N	<	0.56	N	<	0.58		<	0.6	N				
SILVER		0.79	B	<	0.66		<	0.49		<	0.5		<	0.52		<	0.53					
SODIUM		433	B		394	B		319	B		448	B		607	B		328	B				
THALLIUM	<	0.67		<	0.8		<	0.6		<	0.6		<	0.63		<	0.64					
VANADIUM		37			97			13			20			13			32					
ZINC		303			95			94			65			58			100					

B- Value >IDL but <CRDL S- Value determined by methode of standard addition
N- Matrix spike outside recovery limits *- Duplicate RPD out of control
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-2 (0-2)	S-10 (0'-2')
LAB SAMPLE ID:	90102300	90102378
RECEIVED DATE:	10/26/90	10/18/90
ANALYSIS DATE:	11/19/90	11/19/90
MATRIX:	SOLID	SOLID
PCT. SOLID:	85.5	96.0
UNIT:	MG/KG	MG/KG
METALS		
LEAD	332	149

< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-43 (0-2)	S-41A (3.5-5.5)	MW-25 (4-6)
LAB SAMPLE ID:	90112583	90112600	90112698
RECIEVED DATE:	11/07/90	11/09/90	11/19/90
ANALYSIS DATE:	12/12/90	12/12/90	12/12/90
MATRIX:	SOLID	SOLID	SOLID
PCT. SOLID:	91.3	87.2	94.6
UNIT:	MG/KG	MG/KG	MG/KG

METALS

ALUMINUM		6170			4740			3140	
ANTIMONY		3.5	B	<	1.7		<	1.6	
ARSENIC		7.1			2.6		<	0.63	
BARIUM		444			37	B		21	B
BERYLLIUM		0.44	B	<	0.37		<	0.34	
CADMIUM	<	1.1		<	1.1		<	1.1	
CALCIUM		6260			1040	B		425	B
CHROMIUM		42			18			10	
COBALT		13			4.4	B		4.4	B
COPPER		377			22			25	
IRON		58500			7400			8680	
LEAD		605			52			3.7	S
MAGNESIUM		3810			1660			1550	
MANGANESE		471			93			131	
MERCURY		2.8		<	0.11			0.32	
NICKEL		54			7.3	B		5.3	B
POTASSIUM		843	B		711	B		474	B
SELENIUM	<	0.57		<	0.60		<	0.55	
SILVER	<	0.55		<	0.57		<	0.53	
SODIUM		1770			229	B		235	
THALLIUM	<	0.77		<	0.80		<	0.74	
VANADIUM		28			14			9.7	B
ZINC		565			144			27	

B- Value >IDL but <CRDL
< or U- Value <IDL

S- Value determined by methode of standard addition

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-31 (0-2)	S-34 (0-2)	S-26 (0-2)
LAB SAMPLE ID:	90112595	90112694	90112695
RECIEVED DATE:	11/09/90	11/19/90	11/19/90
ANALYSIS DATE:	12/12/90	12/12/90	12/12/90
MATRIX:	SOLID	SOLID	SOLID
PCT. SOLID:	82.2	86.5	90.0
UNIT:	MG/KG	MG/KG	MG/KG
METALS			
LEAD	1290 S	177 S	201 S

S- Value determined by methode of standard addition
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-53 (5-7)	MW-34 (0-2)	S-38 (2-4)	S-39 (2-4)	S-35 (8-10)	S-37 (4-6)
LAB SAMPLE ID:	90112732	90112772	90112775	90112779	90122785	90122791
RECEIVED DATE:	11/21/90	11/30/90	11/30/90	11/30/90	12/01/90	12/03/90
ANALYSIS DATE:	12/17/90	12/17/90	12/17/90	12/17/90	12/17/90	12/17/90
MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
PCT. SOLID:	96.3	93.7	85.3	93.6	87.8	91.6
UNIT:	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
METALS						
ALUMINUM	6490	2990	11100	2840	4770	3330
ANTIMONY	< 1.5 N	1.9 BN	< 1.8 N	< 1.6 N	< 1.7 N	< 1.7 N
ARSENIC	< 0.6	7.7 S	1.1 B	1.6 B	< 0.68	< 0.66
BARIUM	16 B	43	44 B	31 B	32 B	33 B
BERYLLIUM	< 0.32	< 0.34	< 0.38	< 0.34	< 0.36	< 0.35
CADMIUM	< 1.0	1.3	< 1.2	< 1.1	< 1.1	< 1.1
CALCIUM	2660	702 B	442 B	1250	1400	4170
CHROMIUM	5.6 N	14 N	1.6 BN	6.4 BN	8.2 N	8.0 N
COBALT	2.6 B	5.8 B	11 B	3.4 B	3.0 B	5.0 B
COPPER	4.8 B	140	54	42	12	12
IRON	5680 *	14100 *	18900 *	7320 *	11200 *	8440 *
LEAD	1.4	137	20 S	9.9	3.5	3.3
MAGNESIUM	2430	1280	2570	1820	2510	3470
MANGANESE	151	130	342	249	224	181
MERCURY	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1
NICKEL	6.0 B	8.1 B	15	8.3 B	11	9.0
POTASSIUM	318 B	448 B	760 B	566 B	861 B	1060 B
SELENIUM	< 0.52 N	< 0.55 N	< 0.61 N	< 0.56 N	< 0.59 N	< 0.57 N
SILVER	< 0.5	< 0.53	< 0.59	< 0.53	< 0.57	< 0.55
SODIUM	88 B	258 B	324 B	184 B	456 B	388 B
THALLIUM	< 0.7	< 0.75	< 0.82	< 0.75	< 0.8	< 0.76
VANADIUM	5.2 B	47	25	12	13	14
ZINC	27 *	149 *	39 *	40 *	20 *	18 *

B- Value >IDL but <CRDL S- Value determined by methode of standard addition
N- Matrix spike outside recovery limits *- Duplicate RPD out of control
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosgstems, Inc.

CLIENT SAMPLE ID: MW-26
(9-11)

LAB SAMPLE ID: 90122809
RECEIVED DATE: 12/06/90
ANALYSIS DATE: 12/17/90
MATRIX: SOLID
PCT. SOLID: 95.2
UNIT: MG/KG

METALS

ALUMINUM		3010	
ANTIMONY	<	1.6	N
ARSENIC		0.84	B
BARIUM		16	B
BERYLLIUM	<	0.34	
CADMIUM	<	1.1	
CALCIUM		772	B
CHROMIUM		6.5	SN
COBALT		1.9	B
COPPER		8.2	
IRON		5990	*
LEAD		2.3	
MAGNESIUM		1360	
MANGANESE		148	
MERCURY	<	0.1	
NICKEL		6.7	B
POTASSIUM		416	B
SELENIUM	<	0.55	N
SILVER	<	0.53	
SODIUM		113	B
THALLIUM	<	0.74	
VANADIUM		7.6	B
ZINC		16	*

B- Value >IDL but <CRDL S- Value determined by methode of standard addition
N- Matrix spike outside recovery limits *- Duplicate RPD out of control
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	S-36 (0-2)	S-32 (0-2)
LAB SAMPLE ID:	90122786	90122802
RECEIVED DATE:	12/03/90	12/06/90
ANALYSIS DATE:	12/17/90	12/17/90
MATRIX:	SOLID	SOLID
PCT. SOLID:	90.3	83.4
UNIT:	MG/KG	MG/KG
METALS		
LEAD	80 S	339

S- Value determined by methode of standard addition

Envirosystems, Inc.

CLIENT SAMPLE ID:	S-60 (4-6)	S-33 (4-6)
LAB SAMPLE ID:	90122909	90122940
RECEIVED DATE:	12/13/90	12/14/90
ANALYSIS DATE:	12/28/90	12/28/90
MATRIX:	SOLID	SOLID
PCT. SOLID:	96.4	93.1
UNIT:	MG/KG	MG/KG

METALS

ALUMINUM	4580		4580	
ANTIMONY	< 1.6		< 1.6	
ARSENIC	< 0.62		0.73	B
BARIUM	28	B	14	B
BERYLLIUM	< 0.33		< 0.34	
CADMIUM	1.2		< 1.1	
CALCIUM	1590		4920	
CHROMIUM	53		7.5	
COBALT	5.4	B	3.2	B
COPPER	53		10	
IRON	7820		8190	
LEAD	4.6		4.0	
MAGNESIUM	2260		4260	
MANGANESE	333		199	
MERCURY	0.31		< 0.1	
NICKEL	< 4.6		4.7	B
POTASSIUM	674	B	636	B
SELENIUM	< 0.54		< 0.56	
SILVER	< 0.52		< 0.54	
SODIUM	210	B	88	B
THALLIUM	< 0.73		< 0.75	
VANADIUM	13		13	
ZINC	22		18	

B- Value >IDL but <CRDL
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-21 (0-2)	MW-19 (0-2)	MW-20 (0-2)
LAB SAMPLE ID:	90122847	90122848	90122908
RECEIVED DATE:	12/08/90	12/08/90	12/13/90
ANALYSIS DATE:	12/28/90	12/28/90	12/28/90
MATRIX:	SOLID	SOLID	SOLID
PCT. SOLID:	82.9	82.3	81.1
UNIT:	MG/KG	MG/KG	MG/KG
METALS			
LEAD	< 0.4	498	415

< or U- Value <IDL

2 052

Volatiles Results

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-32	FB-1	TRIP-BLANK-1	MW-26	MW-28	MW-29
LAB SAMPLE ID:	91010041	91010043	91010045	91010047	91010048	91010049
SAMPLE DATE:	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91
RECEIVED DATE:	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
ANALYSIS DATE:	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91
FILE NAME:	010041	010043	010045	010047	010048	010049
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Acetone	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (total)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	2.3 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-19	MW-25	MW-33	REP-3	TRIP-BLANK-2	FB-2
LAB SAMPLE ID:	91010051	91010053	91010054	91010056	91010057	91010058
SAMPLE DATE:	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
RECEIVED DATE:	01/05/91	01/05/91	01/05/91	01/05/91	01/05/91	01/05/91
ANALYSIS DATE:	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91
FILE NAME:	010051	010053	010054	010056	010057	010058
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Acetone	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (total)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	2.9 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	2.0 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	TRIP-BLANK-3	FB-3	MW-13	MW-13R	MW-22 (3)	MW-1
LAB SAMPLE ID:	91010062	91010063	91010071	91010071	91010072	91010075
SAMPLE DATE:	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91
RECEIVED DATE:	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91
ANALYSIS DATE:	01/09/91	01/09/91	01/09/91	01/09/91	01/09/91	01/09/91
FILE NAME:	010062	010063	010071R	010071RE	010072	010075
INSTRUMENT ID:	MSB	MSB	MSB	MSB	MSB	MSB
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS						
Acetone	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (total)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	8.8	5.0 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)	5.0 U	5.0 U	5.0 U	5.0 U	18	5.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-9
LAB SAMPLE ID:	91010076
SAMPLE DATE:	01/07/91
RECEIVED DATE:	01/08/91
ANALYSIS DATE:	01/09/91
FILE NAME:	010076
INSTRUMENT ID:	MSB
MATRIX:	WATER
UNITS:	UG/L
DILUTION FACTOR:	1.0

VOLATILE COMPOUNDS

Acetone	10	U
Benzene	5.0	U
Bromodichloromethane	5.0	U
Bromoform	5.0	U
Bromomethane	10	U
2-Butanone	10	U
Carbon Disulfide	5.0	U
Carbon Tetrachloride	5.0	U
Chlorobenzene	5.0	U
Chloroethane	10	U
Chloroform	5.0	U
Chloromethane	10	U
Dibromochloromethane	5.0	U
1,2-Dichloroethane	5.0	U
1,1-Dichloroethane	5.0	U
1,1-Dichloroethene	5.0	U
1,2-Dichloroethene (total)	5.0	U
1,2-Dichloropropane	5.0	U
cis-1,3-Dichloropropene	5.0	U
Ethylbenzene	5.0	U
2-Hexanone	10	U
4-Methyl-2-Pentanone	10	U
Methylene Chloride	5.0	U
Styrene	5.0	U
1,1,2,2-Tetrachloroethane	5.0	U
Tetrachloroethene	5.0	U
Toluene	5.0	U
Trans-1,3-Dichloropropene	5.0	U
1,1,1-Trichloroethane	5.0	U
1,1,2-Trichloroethane	5.0	U
Trichloroethene	5.0	U
Vinyl Acetate	10	U
Vinyl Chloride	10	U
Xylenes (total)	5.0	U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	LAB-BLANK	LAB-BLANK
LAB SAMPLE ID:	0108VWBB1	0109VWBB1
SAMPLE DATE:	01/08/91	01/09/91
RECEIVED DATE:	01/08/91	01/09/91
ANALYSIS DATE:	01/08/91	01/09/91
FILE NAME:	0108VWBB1	0109VWBB1
INSTRUMENT ID:	MSB	MSB
MATRIX:	WATER	WATER
UNITS:	UG/L	UG/L
DILUTION FACTOR:	1.0	1.0
VOLATILE COMPOUNDS		
Acetone	10 U	10 U
Benzene	5.0 U	5.0 U
Bromodichloromethane	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U
Bromomethane	10 U	10 U
2-Butanone	10 U	10 U
Carbon Disulfide	5.0 U	5.0 U
Carbon Tetrachloride	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U
Chloroethane	10 U	10 U
Chloroform	5.0 U	5.0 U
Chloromethane	10 U	10 U
Dibromochloromethane	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U
1,2-Dichloroethene (total)	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U
2-Hexanone	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U
Methylene Chloride	5.0 U	5.0 U
Styrene	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U
Toluene	5.0 U	5.0 U
Trans-1,3-Dichloropropene	5.0 U	5.0 U
1,1,1-Trichloroethane	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U
Trichloroethene	5.0 U	5.0 U
Vinyl Acetate	10 U	10 U
Vinyl Chloride	10 U	10 U
Xylenes (total)	5.0 U	5.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

Semi-Volatiles Results

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-32	FB-1	MW-28	TRIP-BLK-1	MW-26	MW-26R
LAB SAMPLE ID:	91010041	91010043	91010044	91010045	91010047	91010047
SAMPLE DATE:	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91
RECEIVED DATE:	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
EXTRACTION DATE:	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/18/91
ANALYSIS DATE:	01/15/91	01/16/91	01/16/91	01/15/91	01/16/91	01/22/91
FILE NAME:	010041	010043	010044	010045	010047	010047R
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS						
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Benzidine	50 U	50 U	50 U	50 U	50 U	50 U
Benzo(a)Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b+k)fluoranthenes	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)Perylene	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Octyl Phthalate	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrophenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-32	FB-1	MW-28	TRIP-BLK-1	MW-26	MW-26R
LAB SAMPLE ID:	91010041	91010043	91010044	91010045	91010047	91010047
SAMPLE DATE:	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91
RECEIVED DATE:	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
EXTRACTION DATE:	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/18/91
ANALYSIS DATE:	01/15/91	01/16/91	01/16/91	01/15/91	01/16/91	01/22/91
FILE NAME:	010041	010043	010044	010045	010047	010047R
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS						
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)Phthalate	15 B	10 U	19 B	8.8 B J	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-Di-n-Propylamine	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodimethylamine	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
3-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	50 U	50 U	50 U	50 U	50 U	50 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-29	MW-29R	MW-19	MW-25	MW-33	REP-3
LAB SAMPLE ID:	91010049	91010049	91010051	91010053	91010054	91010056
SAMPLE DATE:	01/03/91	01/03/91	01/04/91	01/04/91	01/04/91	01/04/91
RECEIVED DATE:	01/04/91	01/04/91	01/05/91	01/05/91	01/05/91	01/05/91
EXTRACTION DATE:	01/07/91	01/18/91	01/07/91	01/07/91	01/07/91	01/07/91
ANALYSIS DATE:	01/16/91	01/22/91	01/15/91	01/15/91	01/16/91	01/16/91
FILE NAME:	010049	010049R	010051	010053	010054	010056
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS						
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Benzidine	50 U	50 U	50 U	50 U	50 U	50 U
Benzo(a)Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b+k)fluoranthenes	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)Perylene	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Octyl Phthalate	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrophenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-29	MW-29R	MW-19	MW-25	MW-33	REP-3
LAB SAMPLE ID:	91010049	91010049	91010051	91010053	91010054	91010056
SAMPLE DATE:	01/03/91	01/03/91	01/04/91	01/04/91	01/04/91	01/04/91
RECEIVED DATE:	01/04/91	01/04/91	01/05/91	01/05/91	01/05/91	01/05/91
EXTRACTION DATE:	01/07/91	01/18/91	01/07/91	01/07/91	01/07/91	01/07/91
ANALYSIS DATE:	01/16/91	01/22/91	01/15/91	01/15/91	01/16/91	01/16/91
FILE NAME:	010049	010049R	010051	010053	010054	010056
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS						
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)Phthalate	9.7 B J	10 U	10 U	10 B	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-Di-n-Propylamine	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodimethylamine	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
3-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	50 U	50 U	50 U	50 U	50 U	50 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	TRIP-BLK-2	FB-2	TRIP-BLANK-3	FB-3	FB-3R	MW-13
LAB SAMPLE ID:	91010057	91010058	91010062	91010063	91010063	91010071
SAMPLE DATE:	01/04/91	01/04/91	01/07/91	01/07/91	01/07/91	01/07/91
RECEIVED DATE:	01/04/91	01/05/91	01/08/91	01/08/91	01/08/91	01/08/91
EXTRACTION DATE:	01/07/91	01/07/91	01/10/91	01/10/91	01/18/91	01/10/91
ANALYSIS DATE:	01/15/91	01/15/91	01/17/91	01/16/91	01/22/91	01/17/91
FILE NAME:	010057	010058	010062	010063	010063R	010071
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS						
Acenaphthene	10 U	10 U	10 U	10 U	10 U	9.8 J
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Benzidine	50 U	50 U	50 U	50 U	50 U	50 U
Benzo(a)Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b+k)fluoranthenes	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)Perylene	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Octyl Phthalate	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	13
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrophenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	TRIP-BLK-2	FB-2	TRIP-BLANK-3	FB-3	FB-3R	MW-13
LAB SAMPLE ID:	91010057	91010058	91010062	91010063	91010063	91010071
SAMPLE DATE:	01/04/91	01/04/91	01/07/91	01/07/91	01/07/91	01/07/91
RECEIVED DATE:	01/04/91	01/05/91	01/08/91	01/08/91	01/08/91	01/08/91
EXTRACTION DATE:	01/07/91	01/07/91	01/10/91	01/10/91	01/18/91	01/10/91
ANALYSIS DATE:	01/15/91	01/15/91	01/17/91	01/16/91	01/22/91	01/17/91
FILE NAME:	010057	010058	010062	010063	010063R	010071
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS						
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)Phthalate	8.8 B J	10 U	10 U	10 U	10 U	12
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U	14
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	66
4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-Di-n-Propylamine	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodimethylamine	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
3-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	50 U	50 U	50 U	50 U	50 U	50 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	11
Phenol	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U	50 U	50 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-23	MW-23R	MW-1	MW-9	MW-9R
LAB SAMPLE ID:	91010073	91010073	91010075	91010076	91010076
SAMPLE DATE:	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91
RECEIVED DATE:	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91
EXTRACTION DATE:	01/10/91	01/18/91	01/10/91	01/10/91	01/18/91
ANALYSIS DATE:	01/17/91	01/22/91	01/17/91	01/17/91	01/22/91
FILE NAME:	010073	010073R	010075	010076	010076R
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS					
Acenaphthene	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U
Benzidine	50 U	50 U	50 U	50 U	50 U
Benzo(a)Anthracene	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene	10 U	10 U	10 U	10 U	10 U
Benzo(b+k)fluoranthenes	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)Perylene	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate	10 U	10 U	10 U	10 U	10 U
Di-n-Octyl Phthalate	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U	20 U	20 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrophenol	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-23	MW-23R	MW-1	MW-9	MW-9R
LAB SAMPLE ID:	91010073	91010073	91010075	91010076	91010076
SAMPLE DATE:	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91
RECEIVED DATE:	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91
EXTRACTION DATE:	01/10/91	01/18/91	01/10/91	01/10/91	01/18/91
ANALYSIS DATE:	01/17/91	01/22/91	01/17/91	01/17/91	01/22/91
FILE NAME:	010073	010073R	010075	010076	010076R
INSTRUMENT ID:	MSA	MSA	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS					
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)Phthalate	32	9.3 J	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U
Fluorene	9.4 J	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)Pyrene	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	96	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U
N-Nitroso-Di-n-Propylamine	10 U	10 U	10 U	10 U	10 U
N-Nitrosodimethylamine	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U
4-Nitroaniline	50 U	50 U	50 U	50 U	50 U
3-Nitroaniline	50 U	50 U	50 U	50 U	50 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	50 U	50 U	50 U	50 U	50 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U	50 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	BLK-01-07	BLK-10-10	BLK-01-18
LAB SAMPLE ID:	MBLK0107	MBLK0110	MBLK0118
SAMPLE DATE:			
RECEIVED DATE:	01/07/91	01/10/91	01/18/91
EXTRACTION DATE:			
ANALYSIS DATE:	01/15/91	01/16/91	01/22/91
FILE NAME:	MBLK0107	MBLK0110	MBLK0118
INSTRUMENT ID:	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS			
Acenaphthene	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U
Benzidine	50 U	50 U	50 U
Benzo(a)Anthracene	10 U	10 U	10 U
Benzo(a)Pyrene	10 U	10 U	10 U
Benzo(b+k)fluoranthenes	10 U	10 U	10 U
Benzo(g,h,i)Perylene	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U
Benzyl Alcohol	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U
Di-n-Butylphthalate	10 U	10 U	10 U
Di-n-Octyl Phthalate	10 U	10 U	10 U
Dibenz(a,h)Anthracene	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U
2,4-Dichlorophenol	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U
Dimethyl Phthalate	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	50 U	50 U	50 U
2,4-Dinitrophenol	50 U	50 U	50 U
2,4-Dinitrotoluene	10 U	10 U	10 U

ORGANICS ANALYSIS DATA SHEETS
Envirosystems, Inc.

CLIENT SAMPLE ID:	BLK-01-07	BLK-10-10	BLK-01-18
LAB SAMPLE ID:	MBLK0107	MBLK0110	MBLK0118
SAMPLE DATE:			
RECEIVED DATE:	01/07/91	01/10/91	01/18/91
EXTRACTION DATE:			
ANALYSIS DATE:	01/15/91	01/16/91	01/22/91
FILE NAME:	MBLK0107	MBLK0110	MBLK0118
INSTRUMENT ID:	MSA	MSA	MSA
MATRIX:	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L
SEMIVOLATILE COMPOUNDS			
2,6-Dinitrotoluene	10 U	10 U	10 U
bis(2-Ethylhexyl)Phthalate	8.9 J	10 U	10 U
Fluoranthene	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U
Indeno(1,2,3-cd)Pyrene	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U
N-Nitroso-Di-n-Propylamine	10 U	10 U	10 U
N-Nitrosodimethylamine	10 U	10 U	10 U
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U
4-Nitroaniline	50 U	50 U	50 U
3-Nitroaniline	50 U	50 U	50 U
Nitrobenzene	10 U	10 U	10 U
4-Nitrophenol	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U
Pentachlorophenol	50 U	50 U	50 U
Phenanthrene	10 U	10 U	10 U
Phenol	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U
2,4,6-Trichlorophenol	10 U	10 U	10 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

Pesticide/PCB Results

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-32	FB-1	MW-28	TRIP BLANK 1	MW-26	MW-29
LAB SAMPLE ID:	91010041	91010043	91010044	91010045	91010047	91010049
SAMPLE DATE:	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91
RECEIVED DATE:	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
EXTRACTION DATE:	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91
ANALYSIS DATE:	02/04/91	02/04/91	02/04/91	02/04/91	02/04/91	02/04/91
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PESTICIDE AND PCB COMPOUNDS						
alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfate	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Ketone	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
alpha-chlordane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
gamma-chlordane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Arochlor-1016	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1221	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1232	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1242	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1248	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1254	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Arochlor-1260	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	TRIP BLANK 3	FIELD BLANK 3	MW-13	MW-23	MW-1	MW-9
LAB SAMPLE ID:	91010062	91010063	91010071	91010073	91010075	91010076
SAMPLE DATE:	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91
RECEIVED DATE:	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91
EXTRACTION DATE:	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91
ANALYSIS DATE:	02/04/91	02/04/91	02/04/91	02/04/91	02/04/91	02/04/91
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PESTICIDE AND PCB COMPOUNDS						
alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfate	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Ketone	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
alpha-chlordane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
gamma-chlordane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Arochlor-1016	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1221	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1232	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1242	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1248	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arochlor-1254	1.00 U	1.00 U	5.70	1.00 U	1.00 U	1.00 U
Arochlor-1260	1.00 U	1.00 U	3.20	1.00 U	1.00 U	1.00 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	LAB BLANK	LAB BLANK
LAB SAMPLE ID:	LAB BLANK	LAB BLANK
SAMPLE DATE:		
RECEIVED DATE:		
EXTRACTION DATE:	01/07/91	01/10/91
ANALYSIS DATE:	02/04/91	02/04/91
MATRIX:	WATER	WATER
UNITS:	UG/L	UG/L

PESTICIDE AND PCB COMPOUNDS

alpha-BHC	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U
Dieldrin	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U
Endrin	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U
Endosulfate	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U
Endrin Ketone	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U
alpha-chlordane	0.50 U	0.50 U
gamma-chlordane	0.50 U	0.50 U
Toxaphene	1.00 U	1.00 U
Arochlor-1016	0.50 U	0.50 U
Arochlor-1221	0.50 U	0.50 U
Arochlor-1232	0.50 U	0.50 U
Arochlor-1242	0.50 U	0.50 U
Arochlor-1248	0.50 U	0.50 U
Arochlor-1254	1.00 U	1.00 U
Arochlor-1260	1.00 U	1.00 U

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-30	MW-34	MW-24	MW-21	REP-1	MW-27
LAB SAMPLE ID:	91010040	91010042	91010046	91010052	91010055	91010059
SAMPLE DATE:	01/03/91	01/03/91	01/03/91	01/04/91	01/04/91	01/04/91
RECEIVED DATE:	01/04/91	01/04/91	01/04/91	01/05/91	01/05/91	01/05/91
EXTRACTION DATE:	01/09/91	01/09/91	01/09/91	01/09/91	01/09/91	01/09/91
ANALYSIS DATE :	02/04/91	02/04/91	02/04/91	02/04/91	02/04/91	02/04/91
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
UNITS:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

POLYCHLORINATED BIPHENYL COMPOUNDS

Aroclor-1016	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1221	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1232	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1242	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1248	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-31	REP-2	MW-5	MW-7	MW-16	MW-17
LAB SAMPLE ID:	91010060	91010061	91010064	91010065	91010066	91010067
SAMPLE DATE:	01/04/91	01/04/91	01/07/91	01/07/91	01/07/91	01/07/91
RECEIVED DATE:	01/05/91	01/05/91	01/08/91	01/08/91	01/08/91	01/08/91
EXTRACTION DATE:	01/09/91	01/09/91	01/11/91	01/11/91	01/11/91	01/11/91
ANALYSIS DATE :	02/04/91	02/04/91	01/11/91	01/11/91	01/11/91	01/11/91
MATRIX:	WATER	WATER	OIL	OIL	OIL	OIL
UNITS:	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	0.5 U	0.5 U	80 U	800 U	800 U	80 U
Arochlor-1221	0.5 U	0.5 U	80 U	800 U	800 U	80 U
Arochlor-1232	0.5 U	0.5 U	80 U	800 U	800 U	80 U
Arochlor-1242	0.5 U	0.5 U	80 U	800 U	800 U	80 U
Arochlor-1248	0.5 U	0.5 U	80 U	800 U	800 U	80 U
Arochlor-1254	1.0 U	1.0 U	80 U	800 U	800 U	80 U
Arochlor-1260	1.0 U	1.0 U	27100	234686	122763	6716

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID: MW-3

LAB SAMPLE ID: 91020254
SAMPLE DATE: 02/21/91
RECEIVED DATE: 02/22/91
EXTRACTION DATE: 02/22/91
ANALYSIS DATE : 02/25/91
MATRIX: WATER
UNITS: UG/L

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	0.5 U
Arochlor-1221	0.5 U
Arochlor-1232	0.5 U
Arochlor-1242	0.5 U
Arochlor-1248	0.5 U
Arochlor-1254	1.0 U
Arochlor-1260	1.0 U

B - Detected in Lab Blank. U - Below Reported Quanitation Level. J - Estimated Value.

ORGANIC ANALYSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	LAB BLANK	LAB BLANK
LAB SAMPLE ID:	LAB BLANK	LAB BLANK
SAMPLE DATE:		
RECEIVED DATE:		
EXTRACTION DATE:	01/09/91	01/11/91
ANALYSIS DATE :	02/04/90	01/11/91
MATRIX:	WATER	OIL
UNITS:	UG/L	UG/KG

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	0.5 U	80 U
Arochlor-1221	0.5 U	80 U
Arochlor-1232	0.5 U	80 U
Arochlor-1242	0.5 U	80 U
Arochlor-1248	0.5 U	80 U
Arochlor-1254	1.0 U	80 U
Arochlor-1260	1.0 U	80 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

TPH Results

RESULTS OF TOTAL PETROLEUM HYDROCARBON ANALYSIS

ENVIROSYSTEMS I. D.	CLIENT I. D.	TPH RESULTS MG/L	DATE SAMPLED	DATE EXTRACTED
91010040	MW-30	<0.9	01/03/91	01/09/91
91010041	MW-32	<0.9	01/03/91	01/09/91
91010042	MW-34	<0.9	01/03/91	01/09/91
91010043	FB-1	<0.9	01/03/91	01/09/91
91010045	TRIP BLANK 1	<0.9	01/03/91	01/09/91
91010046	MW-24	<0.9	01/03/91	01/09/91
91010047	MW-26	<0.9	01/03/91	01/09/91
91010048	MW-28	13.1	01/03/91	01/09/91
91010049	MW-29	<0.9	01/03/91	01/09/91
91010051	MW-19	<0.9	01/04/91	01/09/91
91010052	MW-21	11.0	01/04/90	01/09/91
91010053	MW-25	1.2	01/04/91	01/09/91
91010054	MW-33	15.0	01/04/91	01/09/91
91010055	REP-1	12.3	01/04/91	01/09/91
91010057	TRIP BLANK 2	<0.9	01/04/91	01/09/91
91010058	FB-2	<0.9	01/04/91	01/09/91
91010059	MW-27	<0.9	01/04/91	01/09/91
91010060	MW-31	<0.9	01/04/91	01/09/91
91010061	REP-2	2.2	01/04/91	01/09/91
91010062	TRIP BLANK 3	<0.9	01/07/91	01/09/91
91010063	FIELD BLANK 3	<0.9	01/07/91	01/09/91
91010071	MW-13	14.1	01/07/91	01/09/91
91010072	MW-22	8.0	01/07/91	01/09/91
91010073	MW-23	6.1	01/07/91	01/09/91
91010074	REP-4	4.5	01/07/91	01/09/91
91010075	MW-1	<0.9	01/07/91	01/09/91
91010076	MW-9	<0.9	01/07/91	01/09/91

RESULTS OF TOTAL PETROLEUM HYDROCARBON ANALYSIS

ENVIROSYSTEMS I. D.	CLIENT I. D.	TPH RESULTS MG/L	DATE SAMPLED	DATE EXTRACTED
91020254	MW-3	11.5	02/21/91	02/22/91

WATER SAMPLES ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA METHODS 413.1 & 418.1

Client: ROUX ASSOCIATES INC.

Client Sample I.D	Enviro. Sample I.D.	Spike Added (mg)	Sample Conc. (mg/L)	MS Conc. (mg/L)	MS % Rec.
MW-21	91010052	86.0	11.0	88.1	90
MW-33	91010054	86.0	15.0	99.4	98
MW-27	91010059	86.0	0.0	92.4	107

Client Sample I.D.	Enviro. Sample I.D.	Spike Added (mg)	MSD Conc. (mg/L)	MSD % Rec.	% RPD
MW-21	91010052	86.0	79.4	80	12
MW-33	91010054	86.0	76.7	72	31
MW-27	91010059	86.0	88.1	102	5

Metals Results

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-33	MW-32	MW-29	MW-26	MW-25	MW-19
LAB SAMPLE ID:	91010054	91010041	91010049	91010047	91010053	91010051
RECEIVED DATE:	01/05/91	01/04/91	01/04/91	01/04/91	01/05/91	01/05/91
ANALYSIS DATE:	01/29/91	01/29/91	01/29/91	01/29/91	01/29/91	01/29/91
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
PCT. SOLID:						
UNIT:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
METALS						
ALUMINUM	4460 N*	869	294	15300	22600	1710
ANTIMONY	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6
ARSENIC	< 3.0	< 3.0	5.9 B	3.3 B	< 3.0	< 3.0
BARIUM	95 B	28 B	152 B	318	247	89 B
BERYLLIUM	< 1.6	< 1.6	< 1.6	< 1.6	2.0 B	< 1.6
CADMIUM	< 5.0	< 5.0	< 5.0	< 5.0	7.0	< 5.0
CALCIUM	28700	31900	64500	75200	16500	49300
CHROMIUM	15	5.5 B	< 2.2	43	81	6.7 B
COBALT	12 B	< 8.7	< 8.7	23 B	35 B	< 8.7
COPPER	< 11	18 B	< 11	62	101	17 B
IRON	7450	1430	21400	28700	63000	2710
LEAD	17 N*	49	38	67	93	50
MAGNESIUM	8860	11500	21200	23400	11300	6290
MANGANESE	484 N	229	2750	3720	3490	2340
MERCURY	< 0.2	0.2	0.2	0.2	< 0.2	0.5
NICKEL	27 B	< 22	< 22	38 B	71	< 22
POTASSIUM	4470 B	3640 B	7070	5800	5370	5820
SELENIUM	5.2	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3
SILVER	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
SODIUM	43900	93400	169000	12700	4470	40700
THALLIUM	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
VANADIUM	< 9.2	< 9.2	< 9.2	30 B	79	< 9.2
ZINC	92	31	13 B	73	228	32

B- Value >IDL but <CRDL
N- Matrix spike outside recovery limits * Duplicate RPD out of control
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	REP-3	TRIP BLANK-1	TRIP BLANK-2	FIELD BLANK-1	FIELD BLANK-2	TRIP BLANK-3
LAB SAMPLE ID:	91010056	91010045	91010057	91010043	91010058	91010062
RECEIVED DATE:	01/05/91	01/04/91	01/05/91	01/04/91	01/05/91	01/08/91
ANALYSIS DATE:	01/29/91	01/29/91	01/29/91	01/29/91	01/29/91	01/29/91
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
PCT. SOLID:						
UNIT:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
METALS						
ALUMINUM	3150	< 97	< 97	< 97	100 B	119 B
ANTIMONY	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6
ARSENIC	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
BARIUM	105	< 3.2	< 3.2	< 3.2	< 3.2	< 3.2
BERYLLIUM	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
CADMIUM	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CALCIUM	30400	523 B	210 B	403 B	568 B	496 B
CHROMIUM	13	< 2.2	< 2.2	2.7 B	< 2.2	8.2 B
COBALT	19	< 8.7	< 8.7	< 8.7	< 8.7	< 8.7
COPPER	12	< 11	< 11	< 11	< 11	< 11
IRON	4940	71	79 B	69 B	140	64 B
LEAD	53	11	9.2	41	12	41
MAGNESIUM	8250	< 71	< 71	< 71	80 B	144 B
MANGANESE	442	< 3.2	< 3.4	< 3.4	< 3.4	< 3.4
MERCURY	< 0.2	< 0.2	< 0.2	0.7	0.3	0.6
NICKEL	< 22	< 22	< 22	< 22	< 22	< 22
POTASSIUM	4180	< 34	< 34	< 34	< 34	250 B
SELENIUM	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3
SILVER	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.5
SODIUM	44800	660 B	530 B	720 B	800 B	480 B
THALLIUM	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
VANADIUM	< 9.2	< 9.2	< 9.2	< 9.2	< 9.2	12 B
ZINC	71	13 B	8.0 B	11 B	28	6.0 B

B- Value >IDL but <CRDL
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

CLIENT SAMPLE ID:	FIELD BLANK-3	MW-13	MW-23	MW-1	MW-9	MW-28
LAB SAMPLE ID:	91010063	91010071	91010073	91010075	91010076	91010048
RECEIVED DATE:	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91
ANALYSIS DATE:	01/29/91	01/29/91	01/29/91	01/29/91	01/29/91	01/29/91
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER
PCT. SOLID:						
UNIT:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
METALS						
ALUMINUM	168 B	14200	887	3320	1800	1760
ANTIMONY	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6
ARSENIC	< 3.0	5.0 B	< 3.0	< 3.0	8.0 B	< 3.0
BARIUM	< 3.2	132 B	532	107 B	160 B	47 B
BERYLLIUM	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
CADMIUM	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CALCIUM	381 B	12900	10300	72200	33100	24200
CHROMIUM	7.4 B	27	9.0 B	19	21	5.2 B
COBALT	< 8.7	< 8.7	< 8.7	< 8.7	< 8.7	< 8.7
COPPER	12 B	61	31	24 B	99	< 11
IRON	81 B	24100	14000	7120	6820	1790
LEAD	8.7	83	11	35	86	40
MAGNESIUM	176 B	5780	15900	26800	9510	4260 B
MANGANESE	< 3.4	1060	2940	557	803	1090
MERCURY	0.2	0.5	0.7	< 0.2	< 0.2	0.5
NICKEL	< 22	26 B	< 22	< 22	32 B	26
POTASSIUM	140 B	3830	5460	3240 B	5840	5020
SELENIUM	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3
SILVER	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.8
SODIUM	230 B	90000	209000	6460	24900	134000
THALLIUM	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
VANADIUM	16 B	32 B	< 9.2	22 B	18 B	< 9.2
ZINC	9.0 B	98	28	36	505	20

B- Value >IDL but <CRDL
< or U- Value <IDL

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

PERCENTAGE RECOVERY DATA

ANALYSIS DATE:
UNIT: UG\L

METALS	TRUE VALUE	AMOUNT DETECTED	PERCENTAGE RECOVERY
ALUMINUM	1000	1090	109
ANTIMONY	100	102	102
ARSENIC	80	86	108
BARIUM	800	805	101
BERYLLIUM	300	307	102
CADMIUM	50	48	96
CALCIUM	10000	9420	94
CHROMIUM	80	77	96
COBALT	300	298	99
COPPER	400	410	103
IRON	1000	998	100
LEAD	80	75	94
MAGNESIUM	10000	9570	96
MANGANESE	400	413	103
MERCURY			
NICKEL	300	311	104
POTASSIUM	10000	9670	97
SELENIUM	80	84	105
SILVER	40	41	103
SODIUM	10000	9510	95
THALLIUM	80	76	95
VANADIUM	400	402	101
ZINC	400	409	102

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

PERCENTAGE RECOVERY DATA

ANALYSIS DATE:
UNIT: UG\L

METALS	TRUE VALUE	AMOUNT DETECTED	PERCENTAGE RECOVERY
ALUMINUM	1000	994	99
ANTIMONY	100	83	83
ARSENIC	80	82	103
BARIUM	800	742	93
BERYLLIUM	300	286	95
CADMIUM	50	43	86
CALCIUM	10000	8860	89
CHROMIUM	80	76	95
COBALT	300	270	90
COPPER	400	365	91
IRON	1000	979	98
LEAD	80	75	94
MAGNESIUM	10000	9090	91
MANGANESE	400	353	88
MERCURY	7.0	8.3	119
NICKEL	300	277	92
POTASSIUM	10000	9320	93
SELENIUM	80	77	96
SILVER	40	40	100
SODIUM	10000	9510	95
THALLIUM	80	81	101
VANADIUM	400	356	89
ZINC	400	368	92

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

BLANK RESULTS

	BLANK		DETECTION LIMIT
ANALYSIS DATE:			
MATRIX:	WATER		WATER
UNIT:	UG/L		UG/L
METALS			
ALUMINUM	< 97		97
ANTIMONY	< 7.6		7.6
ARSENIC	< 3.0		3.0
BARIUM	< 3.2		3.2
BERYLLIUM	< 1.6		1.6
CADMIUM	< 5.0		5.0
CALCIUM	191	B	14
CHROMIUM	< 2.2		2.2
COBALT	< 8.7		8.7
COPPER	< 11		11
IRON	47	B	13
LEAD	< 1.5		1.5
MAGNESIUM	131	B	71
MANGANESE	< 3.4		3.4
MERCURY			
NICKEL	< 22		22
POTASSIUM	120	B	34
SELENIUM	< 3.3		3.3
SILVER	< 2.5		2.5
SODIUM	< 48		48
THALLIUM	< 3.5		3.5
VANADIUM	< 9.2		9.2
ZINC	< 4.6		4.6

METAL ANALYSIS IN SAMPLES RECEIVED FROM ROUX ASSOCIATE
Envirosystems, Inc.

BLANK RESULTS

	BLANK		DETECTION LIMIT
ANALYSIS DATE:			
MATRIX:	WATER		WATER
UNIT:	UG/L		UG/L
METALS			
ALUMINUM	< 97		97
ANTIMONY	< 7.6		7.6
ARSENIC	< 3.0		3.0
BARIUM	< 3.2		3.2
BERYLLIUM	< 1.6		1.6
CADMIUM	< 5.0		5.0
CALCIUM	129	B	14
CHROMIUM	< 2.2		2.2
COBALT	16	B	8.7
COPPER	< 11		11
IRON	< 13		13
LEAD	< 1.5		1.5
MAGNESIUM	< 71		71
MANGANESE	< 3.4		3.4
MERCURY	< 0.2		0.2
NICKEL	< 22		22
POTASSIUM	< 34		34
SELENIUM	< 3.3		3.3
SILVER	< 2.8		2.8
SODIUM	390	B	48
THALLIUM	< 3.5		3.5
VANADIUM	< 9.2		9.2
ZINC	5.0	B	4.6

Tentatively Identified Compounds (TICs)

Volatile Organic Compounds and
Semi-Volatile Organic Compounds

Area-1 Ground Water

Roux VOA WATER TICS

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010071
CLIENT ID: MW-13

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
UNKNOWN	1114	20
UNKNOWN ALKANE	1179	25
UNKNOWN ALKANE	1235	11
UNKNOWN	1279	28
UNKNOWN	1298	23
ALKYL BENZENE	1323	41
UNKNOWN	1346	31
TETRAMETHYL BENZENE	1358	24
UNKNOWN ALKANE	1371	36
ALKYL BENZENE	1409	32
METHYL DIHYDRO INDENE	1420	46
DIMETHYL DIHYDRO INDENE	1460	35
ALKYL BENZENE	1535	18
METHYL NAPHTHALENE	1584	49

Roux VOA TICS - WATER

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010071
CLIENT ID: MW-13R

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
UNKNOWN ALKANE	1115	26
UNKNOWN	1125	19
UNKNOWN ALKANE	1179	31
UNKNOWN HYDROCARBON	1233	24
UNKNOWN	1279	37
UNKNOWN	1298	27
ALKYL BENZENE	1324	51
UNKNOWN HYDROCARBON	1339	27
UNKNOWN	1346	27
UNKNOWN ALKANE	1372	63
ALKYL BENZENE	1409	34
METHYL DIHYDRO INDENE	1421	45
DIMETHYL DIHYDRO INDENE	1460	40
UNKNOWN	1535	20
METHYL NAPHTHALENE	1584	39

RUN VOA WATER TICS

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010051
CLIENT ID: MW-19

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
C6 ALKANE	589	10

ROUX VOA TICS - WATER

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010072
CLIENT ID: MW-22

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
TRIMETHYL BENZENE	1189	13
ALKYL BENZENE	1212	5
TRIMETHYL BENZENE	1225	64
TRIMETHYL BENZENE	1270	21
UNKNOWN	1300	23
ALKYL BENZENE	1325	16
UNKNOWN	1347	17
TETRAMETHYL BENZENE	1359	15
TETRAMETHYL BENZENE	1367	24
ALKYL BENZENE	1411	28
METHYL DIHYDRO INDENE	1421	39
UNKNOWN	1443	15
DIMETHYL DIHYDRO INDENE	1461	17
UNKNOWN	1537	17
METHYL NAPHTHALENE	1586	90

ROUX BNA WATER

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010076
CLIENT ID: MW-9

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
UNKNOWN	245	10
UNKNOWN	1270	15

Roux BNA @ WATER

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010071
CLIENT ID: MW-13

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
UNKNOWN	770	72
UNKNOWN	831	53
DIMETHYL NAPHTHALENE	857	73
DIMETHYL NAPHTHALENE	870	94
UNKNOWN HYDROCARBON	905	67
TRIMETHYL NAPHTHALENE	961	44
TRIMETHYL NAPHTHALENE	981	46
TRIMETHYL NAPHTHALENE	991	35
UNKNOWN HYDROCARBON	1056	67
UNKNOWN HYDROCARBON	1100	128
UNKNOWN HYDROCARBON	1175	67

Roux BNA-WATER

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010051
CLIENT ID: MW-19

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
UNKNOWN	651	8
UNKNOWN	1659	8
UNKNOWN	1794	8

ROUX BNA WATER

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010073
CLIENT ID: MW-23

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
UNKNOWN	539	15
METHYL DIHYDRO INDENE	608	17
METHYL NAPHTHALENE	769	46
UNKNOWN	828	11
DIMETHYL NAPHTHALENE	854	18
DIMETHYL NAPHTHALENE	868	37
DIMETHYL NAPHTHALENE	885	14
TRIMETHYL NAPHTHALENE	977	10
UNKNOWN	1097	26
UNKNOWN HYDROCARBON	1172	13

Roux BNA WATER

TENTATIVELY IDENTIFIED COMPOUNDS

LAB ID: 91010073
CLIENT ID: MW-23R

COMPOUND	SCAN	ESTIMATED CONC. (PPB)
UNKNOWN	597	6
UNKNOWN	607	7
UNKNOWN	674	5
UNKNOWN	732	6
METHYL NAPHTHALENE	768	8
UNKNOWN	827	12
UNKNOWN	977	8
UNKNOWN	1015	5
UNKNOWN	1097	32
UNKNOWN HYDROCARBON	1172	19

Oil Results
Specific Gravity
Kinematic Viscosity
Polychlorinated Biphenyls

ORGANIC ANALSIS DATA SHEET
Envirosystems, Inc.

CLIENT SAMPLE ID:	MW-5	MW-7	MW-16	MW-17	MW-20	REC TANK #1
LAB SAMPLE ID:	91010064	91010065	91010066	91010067	91010068	91010069
SAMPLE DATE:	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91
RECEIVED DATE:	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91
EXTRACTION DATE:	01/11/91	01/11/91	01/11/91	01/11/91	01/11/91	01/11/91
ANALYSIS DATE :	01/11/91	01/11/91	01/11/91	01/11/91	01/11/91	01/11/91
MATRIX:	OIL	OIL	OIL	OIL	OIL	OIL
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

POLYCHLORINATED BIPHENYL COMPOUNDS

Arochlor-1016	80 U	80 U	80 U	80 U	80 U	80 U
Arochlor-1221	80 U	80 U	80 U	80 U	80 U	80 U
Arochlor-1232	80 U	80 U	80 U	80 U	80 U	80 U
Arochlor-1242	80 U	80 U	80 U	80 U	80 U	80 U
Arochlor-1248	80 U	80 U	80 U	80 U	80 U	80 U
Arochlor-1254	80 U	80 U	80 U	80 U	80 U	80 U
Arochlor-1260	27100	234686	122763	6716	7624	10055

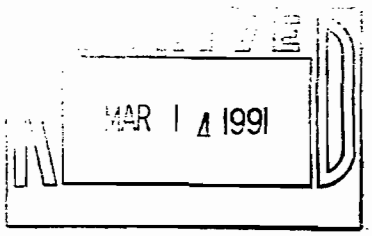
B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.

RESULTS OF SPECIFIC GRAVITY ANALYSIS

ENVIROSYSTEMS I. D.	CLIENT I. D.	SPECIFIC GRAVITY	VISCOSITY @ 100 C, cST
91010064	MW-5	0. 8390	1. 45
91010065	MW-7	0. 8238	1. 33
91010066	MW-16	0. 8386	1. 65
91010067	MW-17	0. 8230	1. 35
91010068	MW-20	0. 8377	1. 33

ENVIROSYSTEMS, INC.

9200 Rumsey Road • Suite B102 • Columbia, Maryland 21045 • (301) 964-0330



March 12, 1991

Mr. Joe Dominico
Roux Associates, Inc.
775 Park Avenue
Huntington, New York 11743

Dear Joe:

Listed below is the result of a TOC analysis performed on a soil sample received on November 9, 1990. The volatile solids analysis was used for TOC determination. Please note that determination of volatile solids does not distinguish precisely between losses due to organic and inorganic matter. The total volatile solids for the sample MW-16(6-8) is found to be 1.6%.

Please do not hesitate to give me a call if you have any questions, comments or require additional information.

Sincerely,

Mohan Khare

Mohan Khare, Ph.D.
President/Laboratory Director

MK/smp